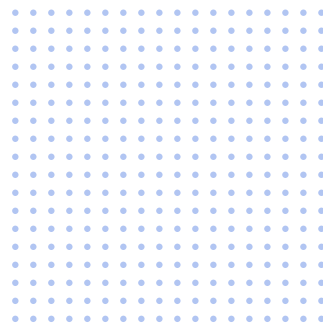




FOR UGC NET EXAM PREPARATION

# UGC NET 2025 Question Paper · Environmental Sciences

EXAM

UGC NET

YEAR

2025

TYPE

Question Paper

SUBJECT

Environmental Sciences

# National Testing Agency

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| Question Paper Name : | 89 Environmental Sciences 07th Jan 2026 Shift 2 |
| Subject Name :        | 89 Environmental Sciences                       |
| Creation Date :       | 2026-01-07 20:05:14                             |
| Duration :            | 180                                             |
| Total Marks :         | 300                                             |
| Display Marks:        | Yes                                             |

## Environmental Sciences and General Paper

|                          |          |
|--------------------------|----------|
| Group Number :           | 1        |
| Group Id :               | 61198789 |
| Group Maximum Duration : | 0        |
| Group Minimum Duration : | 180      |
| Show Attended Group? :   | No       |
| Edit Attended Group? :   | No       |
| Break time :             | 0        |
| Group Marks :            | 300      |

## General Paper

|                                       |           |
|---------------------------------------|-----------|
| Section Id :                          | 611987183 |
| Section Number :                      | 1         |
| Section type :                        | Online    |
| Mandatory or Optional :               | Mandatory |
| Number of Questions :                 | 42        |
| Number of Questions to be attempted : | 42        |
| Section Marks :                       | 100       |
| Maximum Instruction Time :            | 0         |
| Sub-Section Number :                  | 1         |
| Sub-Section Id :                      | 611987545 |
| Question Shuffling Allowed :          | No        |
| Is Section Default? :                 | No        |

**Question Id : 61198713988 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix**

**Question Numbers : (1 to 5)**

**Question Label : Comprehension**

The following table shows the marks obtained by six students A-F in six different subjects S1 to S6 having 160, 160, 120, 120, 200 and 240 as maximum marks, respectively. Based on the data in the table, answer the questions that follow:

**Students-wise Details of Marks obtained**

| Student | Marks obtained in subject |                 |                 |                 |                 |                 |
|---------|---------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|         | S1 (Out of 160)           | S2 (Out of 160) | S3 (Out of 120) | S4 (Out of 120) | S5 (Out of 200) | S6 (Out of 240) |
| A       | 80                        | 84              | 66              | 56              | 154             | 150             |
| B       | 120                       | 100             | 84              | 76              | 136             | 132             |
| C       | 128                       | 72              | 64              | 70              | 144             | 160             |
| D       | 84                        | 130             | 96              | 84              | 104             | 168             |
| E       | 64                        | 128             | 90              | 92              | 174             | 70              |
| F       | 70                        | 96              | 60              | 56              | 164             | 100             |

**Sub questions**

**Question Number : 1 Question Id : 61198713989 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

What is the overall respective percentages of marks scored by student A and student B, in all the subjects together?

1. 55% and 62.8%
2. 56% and 63.8%
3. 57% and 61.8%
4. 59% and 64.8%

**Options :**

61198754501. 1  
61198754502. 2  
61198754503. 3  
61198754504. 4

**Question Number : 2 Question Id : 61198713990 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

What is the average marks scored by all the students in the subjects S5 and subject S6, respectively?

1. 142 and 130
2. 144 and 128
3. 146 and 130
4. 148 and 126

**Options :**

61198754505. 1  
61198754506. 2  
61198754507. 3  
61198754508. 4

**Question Number : 3 Question Id : 61198713991 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

What is the ratio of the total marks scored by student B in all the subjects to the total marks scored by student E in all subjects?

1. 26 : 27
2. 108 : 103
3. 16 : 17
4. 46 : 47

**Options :**

61198754509. 1  
61198754510. 2  
61198754511. 3  
61198754512. 4

**Question Number : 4 Question Id : 61198713992 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

If for getting first division, a student needs to score minimum 65% marks in aggregate, then the number of students getting first division is:

1. 5
2. 3
3. 2
4. 1

**Options :**

61198754513. 1  
61198754514. 2  
61198754515. 3  
61198754516. 4

**Question Number : 5 Question Id : 61198713993 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

The marks scored by student B and student C together in subjects S1 is approximately \_\_\_\_% more than the marks scored by student A, student D and student E together in the same subject.

1. 8.77
2. 9.66
3. 10.53
4. 11.67

**Options :**

61198754517. 1  
61198754518. 2  
61198754519. 3  
61198754520. 4

Question Id : 61198713988 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group  
Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (1 to 5)

Question Label : Comprehension

निम्न तालिका में छः विद्यार्थियों A-F द्वारा क्रमशः 160, 160, 120, 120, 200 और 240 अधिकतम अंक वाले छह विषयों S1 से S6 में प्राप्तांकों को दर्शाया गया है। तालिका में प्रदत्त डेटा के आधार पर आगे पूछे गए प्रश्नों के उत्तर दीजिए:

### प्राप्तांकों का विद्यार्थी-वार विवरण

| विद्यार्थी | विषय में प्राप्तांक |                 |                 |                 |                 |                 |
|------------|---------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|            | S1 (160 में से)     | S2 (160 में से) | S3 (120 में से) | S4 (120 में से) | S5 (200 में से) | S6 (240 में से) |
| A          | 80                  | 84              | 66              | 56              | 154             | 150             |
| B          | 120                 | 100             | 84              | 76              | 136             | 132             |
| C          | 128                 | 72              | 64              | 70              | 144             | 160             |
| D          | 84                  | 130             | 96              | 84              | 104             | 168             |
| E          | 64                  | 128             | 90              | 92              | 174             | 70              |
| F          | 70                  | 96              | 60              | 56              | 164             | 100             |

Sub questions

Question Number : 1 Question Id : 61198713989 Question Type : MCQ Option Shuffling : No Display Question  
Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

विद्यार्थी A तथा विद्यार्थी B द्वारा सभी विषयों में मिलाकर प्राप्तांकों का कुल प्रतिशत क्रमशः कितना होगा?

1. 55% और 62.8%
2. 56% और 63.8%
3. 57% और 61.8%
4. 59% और 64.8%

Options :

61198754501. 1  
61198754502. 2  
61198754503. 3  
61198754504. 4

Question Number : 2 Question Id : 61198713990 Question Type : MCQ Option Shuffling : No Display Question  
Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

सभी विद्यार्थियों द्वारा विषय S5 तथा विषय S6 में प्राप्त अंकों का औसत क्रमशः क्या है?

1. 142 और 130
2. 144 और 128
3. 146 और 130
4. 148 और 126

Options :

61198754505. 1  
61198754506. 2  
61198754507. 3  
61198754508. 4

Question Number : 3 Question Id : 61198713991 Question Type : MCQ Option Shuffling : No Display Question  
Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

विद्यार्थी B द्वारा सभी विषयों में प्राप्त कुल अंकों का विद्यार्थी E द्वारा सभी विषयों में कुल अंकों से अनुपात क्या है?

1. 26 : 27
2. 108 : 103
3. 16 : 17
4. 46 : 47

**Options :**

61198754509. 1  
61198754510. 2  
61198754511. 3  
61198754512. 4

**Question Number : 4 Question Id : 61198713992 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

यदि प्रथम श्रेणी प्राप्त करने के लिए, एक विद्यार्थी को कुल मिलाकर न्यूनतम 65% अंक प्राप्त करने की आवश्यकता होती है, तो प्रथम श्रेणी प्राप्त करने वाले विद्यार्थियों की संख्या कितनी है?

1. 5
2. 3
3. 2
4. 1

**Options :**

61198754513. 1  
61198754514. 2  
61198754515. 3  
61198754516. 4

**Question Number : 5 Question Id : 61198713993 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

विद्यार्थी B व विद्यार्थी C द्वारा मिलाकर विषय S1 में प्राप्त अंक उसी विषय में विद्यार्थी E द्वारा मिलाकर प्राप्त किए अंकों से लगभग \_\_\_\_% अधिक है।

1. 8.77
2. 9.66
3. 10.53
4. 11.67

**Options :**

61198754517. 1  
61198754518. 2  
61198754519. 3  
61198754520. 4

**Sub-Section Number :**

2

**Sub-Section Id :**

611987546

**Question Shuffling Allowed :**

Yes

**Is Section Default? :**

No

Question Number : 6 Question Id : 61198713994 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following are the core social and emotional skills and competencies of self-regulation that are listed under Collaborative for Academic, Social and Emotional Learning (CASEL)?

- A. Self-Management
- B. Self-Awareness
- C. Relationship Skills
- D. Social awareness
- E. Responsible decision making

Choose the **correct** answer from the options given below:

- 1. C, D and E Only
- 2. A, B, C, D and E
- 3. A and D Only
- 4. B, C and E Only

Options :

- 61198754521. 1
- 61198754522. 2
- 61198754523. 3
- 61198754524. 4

Question Number : 6 Question Id : 61198713994 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्नलिखित में से कौन से आत्मनियमन के मुख्य सामाजिक और भावनात्मक कौशल तथा सामर्थ्य हैं जो अकादमिक, सामाजिक और भावनात्मक अधिगम के लिए भागीदारी (सीएसईएल) के तहत सूचीबद्ध हैं?

- A. आत्म-प्रबंधन
- B. आत्म-बोध
- C. संबंध कौशल
- D. सामाजिक बोध
- E. उत्तरदायीपूर्ण निर्णय लेना

नीचे दिए गए विकल्पों में से **सही** उत्तर चुनें:

- 1. केवल C, D और E
- 2. A, B, C, D और E
- 3. केवल A और D
- 4. केवल B, C और E

Options :

- 61198754521. 1
- 61198754522. 2
- 61198754523. 3
- 61198754524. 4

**Question Number : 7 Question Id : 61198713995 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

An overestimated prediction about the probability of an event based on frequency of the event's past occurrences is known as:

1. Hindsight bias
2. Availability heuristic
3. Representativeness heuristic
4. Divergent thinking

**Options :**

61198754525. 1  
61198754526. 2  
61198754527. 3  
61198754528. 4

**Question Number : 7 Question Id : 61198713995 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

आशातीत (overestimated) पिछली घटनाओं की आवृत्ति के आधार पर किसी घटना की संभाव्यता के बारे में भविष्यवाणी को क्या कहा जाता है:

1. पश्च दृष्टि पूर्वाग्रह
2. उपलब्धता स्वतःशोध
3. प्रतिनिधिकता स्वतःशोध
4. अपसारी-चिन्तन

**Options :**

61198754525. 1  
61198754526. 2  
61198754527. 3  
61198754528. 4

**Question Number : 8 Question Id : 61198713996 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

The SWAYAMPRAKASH channel : 05 with the theme of 'Information, Communication and Management Studies' is named as:

1. SANSKRITI
2. SAARASWAT
3. PRABANDHAN
4. PRABODH

**Options :**

61198754529. 1  
61198754530. 2  
61198754531. 3  
61198754532. 4

Question Number : 8 Question Id : 61198713996 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

‘सूचना, संचार और प्रबंधन अध्ययन’ की थीम के साथ स्वयंप्रभा चैनल : 05 को क्या नाम दिया गया:

1. SANSKRITI
2. SAARASWAT
3. PRABANDHAN
4. PRABODH

Options :

61198754529. 1  
61198754530. 2  
61198754531. 3  
61198754532. 4

Question Number : 9 Question Id : 61198713997 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following are the prominent features of Self-directed learning?

- A. Passive learning
- B. Extension of learning
- C. Taking ownership of learning
- D. Teacher-centered learning
- E. Self-monitoring

Choose the **correct** answer from the options given below:

1. A, D and E Only
2. B and D Only
3. B, C and E Only
4. A and E Only

Options :

61198754533. 1  
61198754534. 2  
61198754535. 3  
61198754536. 4

Question Number : 9 Question Id : 61198713997 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

आत्म-निर्देशित अधिगम की प्रमुख विशेषताएँ निम्नलिखित में से कौन सी हैं?

- A. निष्क्रिय अधिगम
- B. अधिगम का विस्तार
- C. अधिगम का स्वामित्व लेना
- D. शिक्षक-केंद्रित अधिगम
- E. आत्म-अन्वीक्षण

नीचे दिए गए विकल्पों में से **सही** उत्तर चुनें:

- 1. केवल A, D और E
- 2. केवल B और D
- 3. केवल B, C और E
- 4. केवल A और E

Options :

- 61198754533. 1
- 61198754534. 2
- 61198754535. 3
- 61198754536. 4

Question Number : 10 Question Id : 61198713998 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

During a live online math tutorial, a teacher wants to demonstrate problem-solving techniques and equations visually. Which software/tool would best support this instructional method?

- 1. Adobe Illustrator
- 2. Camtasia
- 3. Jamboard
- 4. Kahoot

Options :

- 61198754537. 1
- 61198754538. 2
- 61198754539. 3
- 61198754540. 4

Question Number : 10 Question Id : 61198713998 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

एक लाइव ऑनलाइन गणित के ट्यूटोरियल के दौरान शिक्षक दृश्य रूप में समस्या-हल करने की तकनीकों और समीकरणों का प्रदर्शन करना चाहता है। इसे निर्देशात्मक पद्धति को कौनसा सॉफ्टवेयर/साधन सबसे अच्छी तरह से सपोर्ट करेगा?

1. एडोबी एलस्ट्रेटर
2. कैमटासिया
3. जैमबोर्ड
4. काहूट

Options :

61198754537. 1  
61198754538. 2  
61198754539. 3  
61198754540. 4

Question Number : 11 Question Id : 61198713999 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the correct statements.

- A. Panel study is a type of longitudinal research.
- B. Cohort study is a type of longitudinal research.
- C. Panel study is a type of cross-sectional research.
- D. Cohort study is a type of cross-sectional research.

Choose the **correct** answer from the options given below:

1. A and B Only
2. A and D Only
3. B and C Only
4. C and D Only

Options :

61198754541. 1  
61198754542. 2  
61198754543. 3  
61198754544. 4

Question Number : 11 Question Id : 61198713999 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

सही कथनों की पहचान कीजिए:

- A. पैनेल अध्ययन अनुदैर्घ्य शोध का एक प्रकार है।
- B. सहगण (कोहोर्ट) अध्ययन अनुदैर्घ्य शोध का एक प्रकार है।
- C. पैनेल अध्ययन प्रतिनिध्यात्मक (क्रॉस-सैक्शनल) शोध का एक प्रकार है।
- D. सहगण (कोहोर्ट) अध्ययन प्रतिनिध्यात्मक (क्रॉस-सैक्शनल) शोध का एक प्रकार है।

नीचे दिए गए विकल्पों में से **सही** उत्तर चुनें:

- 1. केवल A और B
- 2. केवल A और D
- 3. केवल B और C
- 4. केवल C और D

Options :

- 61198754541. 1
- 61198754542. 2
- 61198754543. 3
- 61198754544. 4

Question Number : 12 Question Id : 61198714000 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

In a research study, a group that experiences the manipulated independent variables is generally known as:

- 1. Placebo group
- 2. Control group
- 3. Independent group
- 4. Experimental group

Options :

- 61198754545. 1
- 61198754546. 2
- 61198754547. 3
- 61198754548. 4

Question Number : 12 Question Id : 61198714000 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

किसी शोध अध्ययन में ऐसे समूह को, जो छलयोजित अनाश्रित चरों का अनुभव करता है, सामान्यतः क्या कहा जाता है?

- 1. प्लेसीबो समूह
- 2. नियंत्रण समूह
- 3. अनाश्रित समूह
- 4. प्रायोगिक समूह

Options :

- 61198754545. 1
- 61198754546. 2
- 61198754547. 3
- 61198754548. 4

Question Number : 13 Question Id : 61198714001 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the discrete variables.

- A. Number of students in each class of a school
- B. Number of heads obtained in ten tosses of a coin
- C. Marks scored by students in an objective type examination with negative marking for incorrect responses
- D. Height of students in a school

Choose the **correct** answer from the options given below:

- 1. A, B and C Only
- 2. A and B Only
- 3. A, B and D Only
- 4. C and D Only

Options :

- 61198754549. 1
- 61198754550. 2
- 61198754551. 3
- 61198754552. 4

Question Number : 13 Question Id : 61198714001 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

असतत चरों की पहचान कीजिए:

- A. किसी विद्यालय की प्रत्येक कक्षा में छात्रों की संख्या
- B. किसी सिक्के को दस बार उछाले जाने पर प्राप्त हेड की संख्या
- C. वस्तुनिष्ठ प्रकार की परीक्षा में गलत उत्तरों के लिए ऋणात्मक अंक के साथ छात्रों के प्राप्तांक
- D. विद्यालय में छात्रों के कद की ऊँचाई

नीचे दिए गए विकल्पों में से **सही** उत्तर चुनें:

- 1. केवल A, B और C
- 2. केवल A और B
- 3. केवल A, B और D
- 4. केवल C और D

Options :

- 61198754549. 1
- 61198754550. 2
- 61198754551. 3
- 61198754552. 4

Question Number : 14 Question Id : 61198714002 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following statistical measures in increasing order of their values for a given dataset.

- A. 6<sup>th</sup> decile
- B. 3<sup>rd</sup> quartile
- C. Median
- D. 70th percentile

Choose the **correct** answer from the options given below:

- 1. A, B, C, D
- 2. C, A, D, B
- 3. C, B, A, D
- 4. B, C, A, D

Options :

- 61198754553. 1
- 61198754554. 2
- 61198754555. 3
- 61198754556. 4

Question Number : 14 Question Id : 61198714002 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

किसी दिए गए आँकड़ों के समुच्चय के लिए निम्नलिखित सांख्यिकीय मापनों को उनके मानों के आरोही क्रम में व्यवस्थित कीजिए:

- A. छठा दशमक
- B. तृतीय चतुर्थक
- C. माधिका
- D. 70वाँ शतमक

नीचे दिए गए विकल्पों में से **सही** उत्तर चुनें:

- 1. A, B, C, D
- 2. C, A, D, B
- 3. C, B, A, D
- 4. B, C, A, D

Options :

- 61198754553. 1
- 61198754554. 2
- 61198754555. 3
- 61198754556. 4

Question Number : 15 Question Id : 61198714003 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

student's t-test is useful for testing the

- A. significance of difference between two sample means
- B. independence of attributes
- C. significance of correlation coefficient
- D. analysis of variance

Choose the **correct** answer from the options given below:

- 1. A and B Only
- 2. B and C Only
- 3. C and D Only
- 4. A and C Only

Options :

- 61198754557. 1
- 61198754558. 2
- 61198754559. 3
- 61198754560. 4

Question Number : 15 Question Id : 61198714003 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

छात्रों का टी-परीक्षण किसके परीक्षण के लिए उपयोगी है:

- A. दो प्रतिदर्श मध्यमानों के बीच अंतर की सार्थकता
- B. गुणों की स्वतंत्रता
- C. सहसंबंध गुणांक की सार्थकता
- D. प्रसरण का विश्लेषण

नीचे दिए गए विकल्पों में से **सही** उत्तर चुनें:

- 1. केवल A और B
- 2. केवल B और C
- 3. केवल C और D
- 4. केवल A और C

Options :

- 61198754557. 1
- 61198754558. 2
- 61198754559. 3
- 61198754560. 4

Question Number : 16 Question Id : 61198714004 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

In mediated communication audience attention is considered as a:

1. Human liability
2. Scarce resource
3. Visibility product
4. Regulated liability

Options :

61198754561. 1  
61198754562. 2  
61198754563. 3  
61198754564. 4

Question Number : 16 Question Id : 61198714004 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

माध्यत संप्रेषण में श्रोता के ध्यान को माना जाता है:

1. मानवीय देयता
2. अपर्याप्त संसाधन
3. दृश्यता उत्पाद
4. विनियमित देयता

Options :

61198754561. 1  
61198754562. 2  
61198754563. 3  
61198754564. 4

Question Number : 17 Question Id : 61198714005 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is labelled as the second self?

1. The telephone
2. The radio
3. The television
4. The computer

Options :

61198754565. 1  
61198754566. 2  
61198754567. 3  
61198754568. 4

Question Number : 17 Question Id : 61198714005 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्नलिखित में से किसे दूसरे स्व (सेकंड सेल्फ) की तरह वर्गीकृत किया जाता है?

1. टेलीफोन
2. रेडियो
3. टेलीविजन
4. कंप्यूटर

Options :

61198754565. 1  
61198754566. 2  
61198754567. 3  
61198754568. 4

Question Number : 18 Question Id : 61198714006 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

The 'interactive society' is characterized by the following:

- A. Non-electronic communication
- B. Networked integration
- C. Multi-media
- D. Digitisation
- E. Uncultured media environment

Choose the **correct** answer from the options given below:

1. A, B and C Only
2. B, C and D Only
3. C, D and E Only
4. A, B and E Only

Options :

61198754569. 1  
61198754570. 2  
61198754571. 3  
61198754572. 4

Question Number : 18 Question Id : 61198714006 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

'अन्योन्यक्रियात्मक समाज' निम्न के द्वारा अभिलक्षित होता है:

- A. गैर-इलेक्ट्रॉनिक संचार
- B. नेटवर्क युक्त एकीकरण
- C. जनसंचार
- D. अंकुरूपण (डिजिटाइजेशन)
- E. असंस्कृत जनसंचार माध्यम परिवेश

नीचे दिए गए विकल्पों में से **सही** उत्तर चुनें:

- 1. केवल A, B और C
- 2. केवल B, C और D
- 3. केवल C, D और E
- 4. केवल A, B और E

Options :

- 61198754569. 1
- 61198754570. 2
- 61198754571. 3
- 61198754572. 4

Question Number : 19 Question Id : 61198714007 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following can be categorized under electronically-based communication?

- A. Typographic
- B. Audio-visual
- C. Computer-mediated
- D. Personal conversation
- E. Cylinder press

Choose the **correct** answer from the options given below:

- 1. A, B and C Only
- 2. B, C and D Only
- 3. C, D and E Only
- 4. A, D and E Only

Options :

- 61198754573. 1
- 61198754574. 2
- 61198754575. 3
- 61198754576. 4

Question Number : 19 Question Id : 61198714007 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्नलिखित में से किसे इलेक्ट्रॉनिक आधारित संचार की श्रेणी में रखा जा सकता है?

- A. मुद्रण कला संबंधी संचार
- B. श्रव्य - दृश्य संचार
- C. कंप्यूटर माध्यम संचार
- D. व्यक्तिगत वार्तालाप संचार
- E. सिलिंडर प्रेस संचार

नीचे दिए गए विकल्पों में से **सही** उत्तर चुनें:

- 1. केवल A, B और C
- 2. केवल B, C और D
- 3. केवल C, D और E
- 4. केवल A, D और E

Options :

- 61198754573. 1
- 61198754574. 2
- 61198754575. 3
- 61198754576. 4

Question Number : 20 Question Id : 61198714008 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>(Term) |                 | LIST-II<br>(Description) |                                                     |
|------------------|-----------------|--------------------------|-----------------------------------------------------|
| A.               | Natural sign    | I.                       | Less certainty of response in artificial signs      |
| B.               | Artificial sign | II.                      | Those things that are represented in nature         |
| C.               | Signal          | III.                     | Those that are constructed in the social world      |
| D.               | Symbol          | IV.                      | Artificial signs that produce predictable responses |

Choose the **correct** answer from the options given below:

- 1. A-II, B-III, C-IV, D-I
- 2. A-III, B-IV, C-I, D-II
- 3. A-IV, B-I, C-II, D-III
- 4. A-I, B-II, C-III, D-IV

Options :

- 61198754577. 1
- 61198754578. 2
- 61198754579. 3
- 61198754580. 4

Question Number : 20 Question Id : 61198714008 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

सूची -I को सूची-II से सुमेलित करें

| सूची -I<br>(शब्दावली) |                 | सूची -II<br>(विवरण) |                                                                    |
|-----------------------|-----------------|---------------------|--------------------------------------------------------------------|
| A.                    | प्राकृतिक संकेत | I.                  | कृत्रिम संकेतों में प्रत्युत्तर प्राप्त होने की निश्चितता कम होना। |
| B.                    | कृत्रिम संकेत   | II.                 | वे बातें जिनका प्रतिनिधित्व प्रकृति में होता है।                   |
| C.                    | सिगनल           | III.                | वे बातें जिनकी संरचना सामाजिक जगत में होती है।                     |
| D.                    | प्रतीक          | IV.                 | वे कृत्रिम संकेत जिनसे पूर्वानुमेय प्रत्युत्तर प्राप्त होते हैं।   |

नीचे दिए गए विकल्पों में से सही विकल्प चुनें:

1. A-II, B-III, C-IV, D-I
2. A-III, B-IV, C-I, D-II
3. A-IV, B-I, C-II, D-III
4. A-I, B-II, C-III, D-IV

Options :

61198754577. 1  
61198754578. 2  
61198754579. 3  
61198754580. 4

Question Number : 21 Question Id : 61198714009 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

For aiming a target a person gets one rupee each time when he hits it and loses one rupee when he misses it. If he gets Rs 40 after aiming at the target one hundred times, then how many times did he miss the target?

1. 30
2. 40
3. 60
4. 70

Options :

61198754581. 1  
61198754582. 2  
61198754583. 3  
61198754584. 4

**Question Number : 21 Question Id : 61198714009 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

किसी लक्ष्य पर निशाना साधने के लिए, एक व्यक्ति को प्रत्येक बार एक (1) रुपया मिलता है जब वह सही निशाना लगाता है और वह एक (1) रुपया खो देता है जब वह गलत निशाना लगाता है। अगर लक्ष्य पर 100 बार निशाना लगाने के बाद उसे 40 रुपये प्राप्त होते हैं, तब कितनी बार उसने निशाना गलत लगाया?

1. 30
2. 40
3. 60
4. 70

**Options :**

61198754581. 1  
61198754582. 2  
61198754583. 3  
61198754584. 4

**Question Number : 22 Question Id : 61198714010 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

Three successive discounts of 10%, 25% and 35% on the marked price of an item are equivalent to a single discount of:

1. ~ 56.1%
2. ~ 43.9%
3. 70%
4. ~ 50.2%

**Options :**

61198754585. 1  
61198754586. 2  
61198754587. 3  
61198754588. 4

**Question Number : 22 Question Id : 61198714010 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

किसी वस्तु के अंकित मूल्य पर तीन क्रमागत बट्टे 10%, 25% और 35% के समकक्ष एक बट्टा होगा:

1. ~ 56.1%
2. ~ 43.9%
3. 70%
4. ~ 50.2%

**Options :**

61198754585. 1  
61198754586. 2  
61198754587. 3  
61198754588. 4

**Question Number : 23 Question Id : 61198714011 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

A car travels from city A to city B with a constant speed. If the speed of the car is increased by 20 km/h it will reach destination 1 hour earlier. On the other hand, if its speed decreases by 20 km/h, it reaches 2 hours later than scheduled time. What is the usual time if it travels with routine speed?

1. 2 hr
2. 4 hr
3. 8 hr
4. 10 hr

**Options :**

61198754589. 1  
61198754590. 2  
61198754591. 3  
61198754592. 4

**Question Number : 23 Question Id : 61198714011 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

एक कार शहर A से शहर B तक स्थिर गति से यात्रा करती है। अगर कार की गति 20 किमी./घं. बढ़ाई जाती है तब वह गंतव्य 1 घंटे जल्दी पहुंचेगी। वहीं दूसरी ओर, अगर गति 20 किमी./घं. घटाई जाती है, तब वह अपने अनुसूचित समय से 2 घंटा देरी से पहुँचेगी। अगर वह नेमी गति से यात्रा करती है, तब उसका सामान्य समय क्या है?

1. 2 घंटा
2. 4 घंटा
3. 8 घंटा
4. 10 घंटा

**Options :**

61198754589. 1  
61198754590. 2  
61198754591. 3  
61198754592. 4

**Question Number : 24 Question Id : 61198714012 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

The present ages of three persons are in the proportion 4 : 5 : 7. Seven years ago, the sum of their ages was 59 years. The present age of youngest of them is

1. 15 years
2. 20 years
3. 25 years
4. 35 years

**Options :**

61198754593. 1  
61198754594. 2  
61198754595. 3  
61198754596. 4

**Question Number : 24 Question Id : 61198714012 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

तीन व्यक्तियों की वर्तमान आयु 4 : 5 : 7 के अनुपात में है। सात वर्ष पूर्व उन व्यक्तियों की आयु का कुल योग 59 वर्ष था। वर्तमान में उनमें से सबसे कनिष्ठ व्यक्ति की आयु कितनी है?

1. 15 वर्ष
2. 20 वर्ष
3. 25 वर्ष
4. 35 वर्ष

**Options :**

61198754593. 1  
61198754594. 2  
61198754595. 3  
61198754596. 4

**Question Number : 25 Question Id : 61198714013 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

In a certain coding language, if the word 'DRIVE' is coded as 'GOLSH', then the word 'COINS' will be coded as:

1. FKKOU
2. EKLPV
3. FLLKV
4. ELKPU

**Options :**

61198754597. 1  
61198754598. 2  
61198754599. 3  
61198754600. 4

**Question Number : 25 Question Id : 61198714013 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

एक निश्चित कूटलेखन भाषा में, शब्द 'DRIVE' को 'GOLSH' से कूटित किया जाता है, तब शब्द 'COINS' का कूट होगा:

1. FKKOU
2. EKLPV
3. FLLKV
4. ELKPU

**Options :**

61198754597. 1  
61198754598. 2  
61198754599. 3  
61198754600. 4

**Question Number : 26 Question Id : 61198714014 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

"Just look around yourself, everything around us is so intelligently organized. Obviously this world must have been created by an intelligent God." Which of the following fallacy is committed in the above argument?

1. Hasty Generalization
2. Begging the question
3. Equivocation
4. Slippery slope

**Options :**

61198754601. 1  
61198754602. 2  
61198754603. 3  
61198754604. 4

**Question Number : 26 Question Id : 61198714014 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

"अपने चारों ओर दृष्टिपात करें हमारे चारों ओर की वस्तुएँ अत्यंत बुद्धिमानी से व्यवस्थित की गई हैं। स्पष्ट है कि यह संसार किसी बुद्धिमान ईश्वर द्वारा सृजित किया गया है।" उपर्युक्त कथन में कौन-सा तर्कदोष है?

1. अविचारित सामान्यीकरण
2. आत्माश्रय दोष
3. अनेकार्थकता
4. फिसलनयुक्त ढलान

**Options :**

61198754601. 1  
61198754602. 2  
61198754603. 3  
61198754604. 4

**Question Number : 27 Question Id : 61198714015 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

If the statement 'No fishes are mammals' is given as false, then which of the following proposition can be immediately inferred to be true?

1. Some fishes are mammals
2. All fishes are mammals
3. Some fishes are not mammals
4. All mammals are fishes

**Options :**

61198754605. 1  
61198754606. 2  
61198754607. 3  
61198754608. 4

Question Number : 27 Question Id : 61198714015 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

यदि यह कथन 'कोई भी मछली स्तनपायी नहीं होती' को गलत माना जाता है तो तत्काल निम्नलिखित किसी प्रतिज्ञप्ति के सत्य होने का अनुमान लगाया जा सकता है?

1. कुछ मछलियाँ स्तनपायी होती हैं।
2. सभी मछलियाँ स्तनपायी होती हैं।
3. कुछ मछलियाँ स्तनपायी नहीं होती हैं।
4. सभी स्तनपायी मछलियाँ होती हैं।

Options :

61198754605. 1  
61198754606. 2  
61198754607. 3  
61198754608. 4

Question Number : 28 Question Id : 61198714016 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following statements are logically equivalent?

- A. All non-bovines are cats
- B. No cats are bovines
- C. All cats are non-bovines
- D. No bovines are cats

Choose the **correct** answer from the options given below:

1. B, C and D Only
2. A and C Only
3. B and D Only
4. A, B and C Only

Options :

61198754609. 1  
61198754610. 2  
61198754611. 3  
61198754612. 4

Question Number : 28 Question Id : 61198714016 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्नलिखित कथनों में से कौन-से कथन तार्किक दृष्टि से समतुल्य हैं?

- A. सभी गैर-गोजातीय बिल्लियाँ होते हैं।
- B. कोई भी बिल्ली गोजातीय नहीं होती है।
- C. सभी बिल्लियाँ गैर-गोजातीय होती हैं।
- D. कोई भी गोजातीय, बिल्लियाँ नहीं होते हैं।

नीचे दिए गए विकल्पों में से **सही** उत्तर चुनें:

- 1. केवल B, C और D
- 2. केवल A और C
- 3. केवल B और D
- 4. केवल A, B और C

Options :

- 61198754609. 1
- 61198754610. 2
- 61198754611. 3
- 61198754612. 4

Question Number : 29 Question Id : 61198714017 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following statements are true?

- A. Validity is an attribute of deductive argument.
- B. Validity can be attributed to any single proposition.
- C. In a valid argument all of its premises have to be true.
- D. A valid deductive argument can not have all true premises and a false conclusion.

Choose the **correct** answer from the options given below:

- 1. B and C Only
- 2. A, C and D Only
- 3. A and D Only
- 4. C and D Only

Options :

- 61198754613. 1
- 61198754614. 2
- 61198754615. 3
- 61198754616. 4

Question Number : 29 Question Id : 61198714017 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्नलिखित में से कौन-से कथन सत्य हैं?

- A. वैधता, निगमनात्मक युक्ति की विशेषता है।
- B. वैधता को किसी एकल प्रतिज्ञप्ति पर गुणारोपित किया जा सकता है।
- C. किसी वैध युक्ति में इसकी सभी आधारिकाओं का सत्य होना अपेक्षित है।
- D. किसी वैध निगमनात्मक युक्ति में सभी सत्य आधारिकाएँ और एक गलत निष्कर्ष नहीं हो सकता।

नीचे दिए गए विकल्पों में से **सही** उत्तर चुनें:

- 1. केवल B और C
- 2. केवल A, C और D
- 3. केवल A और D
- 4. केवल C और D

Options :

- 61198754613. 1
- 61198754614. 2
- 61198754615. 3
- 61198754616. 4

Question Number : 30 Question Id : 61198714018 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following arguments is fallacious because the middle term is present in both positive and negative instances and violates the rule that it should not be present in the negative instances?

- 1. Fire is cold because it is a substance
- 2. The hill has fire because it is knowable
- 3. Sound is eternal because it is produced
- 4. Wherever there is fire there is smoke

Options :

- 61198754617. 1
- 61198754618. 2
- 61198754619. 3
- 61198754620. 4

**Question Number : 30 Question Id : 61198714018 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

निम्नलिखित कथनों में से किस कथन में तर्कदोष है क्योंकि मध्यम पद अन्वय दृष्टांत और निषेधात्मक दृष्टांत दोनों में मौजूद है और इससे इस नियम का उल्लंघन होता है कि यह निषेधात्मक दृष्टांतों में मौजूद नहीं होना चाहिए।

1. आग ठंडी होती है क्योंकि यह तत्व है।
2. पहाड़ी में आग है क्योंकि यह श्रेय है।
3. ध्वनि शाश्वत है क्योंकि इसे उत्पन्न किया जाता है।
4. जहाँ कहीं आग होती है तो वहाँ धुँआ होता है।

**Options :**

- 61198754617. 1
- 61198754618. 2
- 61198754619. 3
- 61198754620. 4

**Question Number : 31 Question Id : 61198714019 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

An exciting new evolution of the World Wide Web (WWW) providing machine-readable and machine-comprehensible information far beyond the current capabilities is called:

1. Dynamic Web
2. Web Browser
3. Semantic Web
4. Static Web

**Options :**

- 61198754621. 1
- 61198754622. 2
- 61198754623. 3
- 61198754624. 4

**Question Number : 31 Question Id : 61198714019 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

वर्तमान सामर्थ्य से कहीं परे जा कर मशीन पठनीय और मशीन बोधगम्य सूचना प्रदान करने वाले विश्वव्यापी वेब (WWW) के रोमांचक नवीन उद्भव को निम्न में से क्या कहा जाता है?

1. गति वेब
2. वेब ब्राउजर
3. सिमेंटिक वेब
4. स्थिर वेब

**Options :**

- 61198754621. 1
- 61198754622. 2
- 61198754623. 3
- 61198754624. 4

Question Number : 32 Question Id : 61198714020 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

What is Bluetooth technology?

1. It means the technology can travel with the user; for instance, users can download software, email messages, and web pages onto a laptop or other mobile device
2. It refers to any type of operation accomplished without the use of a hard-wired connection
3. It refers to a wireless Personal Area Network (PAN) technology that transmits signal over short distances among cell phones, computers and other devices
4. It provides communication for devices owned by a single user that work over a short distance

Options :

61198754625. 1  
61198754626. 2  
61198754627. 3  
61198754628. 4

Question Number : 32 Question Id : 61198714020 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

ब्लूटूथ प्रौद्योगिकी क्या है?

1. इसका अर्थ है कि प्रौद्योगिकी प्रयोक्ता के साथ चल सकती है; उदाहरणार्थ, प्रयोक्ता लेपटाप अथवा अन्य मोबाइल उपकरण पर सॉफ्टवेयर, ईमेल संदेश और वेब पृष्ठों को डाउनलोड कर सकते हैं।
2. इसका संकेत हार्ड-तार वाले कनेक्शन का प्रयोग किए बिना किए जाने वाले किसी प्रकार के प्रचालन की ओर है।
3. इसका अर्थ बे-तार पर्सनल एरिया नेटवर्क (PAN) प्रौद्योगिकी से है जो सेल फोन, कंप्यूटरों व अन्य उपकरणों के बीच छोटी दूरियों तक संकेतों (सिग्नल) का प्रेषण करती है।
4. यह एक प्रयोक्ता के उपकरणों हेतु संचार उपलब्ध कराता है जो छोटी दूरियों तक काम करता है।

Options :

61198754625. 1  
61198754626. 2  
61198754627. 3  
61198754628. 4

Question Number : 33 Question Id : 61198714021 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II in the context of MS-EXCEL

| LIST-I (Cell Reference) |        | LIST-II (Definition and Features) |                                                                                 |
|-------------------------|--------|-----------------------------------|---------------------------------------------------------------------------------|
| A.                      | \$D\$5 | I.                                | Mixed reference. Row is fixed and column is changeable when fill handle is used |
| B.                      | D\$5   | II.                               | Mixed reference. Column is fixed and row is changeable when fill handle is used |
| C.                      | D5     | III.                              | Absolute reference. Column and row are fixed when fill handle is used           |
| D.                      | \$D5   | IV.                               | Relative reference. Column and row are changeable when fill handle is used      |

Choose the **correct** answer from the options given below:

1. A-III, B-I, C-IV, D-II
2. A-II, B-I, C-IV, D-III
3. A-III, B-IV, C-I, D-II
4. A-IV, B-I, C-III, D-II

**Options :**

61198754629. 1  
 61198754630. 2  
 61198754631. 3  
 61198754632. 4

Question Number : 33 Question Id : 61198714021 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

सूची -I को सूची-II से सुमेलित करें (MS-EXCEL के संदर्भ में)

| सूची -I (सैल संदर्भ) |        | सूची -II (परिभाषा व अभिलक्षण) |                                                                                                           |
|----------------------|--------|-------------------------------|-----------------------------------------------------------------------------------------------------------|
| A.                   | \$D\$5 | I.                            | मिश्रित संदर्भ। जब फिल हैंडल का प्रयोग किया जाता है तो पंक्ति नियत रहती है और कॉलम परिवर्तनीय हो जाता है। |
| B.                   | \$D5   | II.                           | मिश्रित संदर्भ। फिल हैंडल के प्रयोग किए जाने पर कॉलम नियत रहता है और पंक्ति परिवर्तनीय हो जाती है।        |
| C.                   | D5     | III.                          | निरपेक्ष संदर्भ। फिल हैंडल का प्रयोग किए जाने पर कॉलम व पंक्ति नियत रहते हैं।                             |
| D.                   | \$D5   | IV.                           | सापेक्षिक संदर्भ। फिल हैंडल का प्रयोग किए जाने पर कॉलम व पंक्ति परिवर्तनीय हो जाते हैं।                   |

नीचे दिए गए विकल्पों में से **सही** विकल्प चुनें:

1. A-III, B-I, C-IV, D-II
2. A-II, B-I, C-IV, D-III
3. A-III, B-IV, C-I, D-II
4. A-IV, B-I, C-III, D-II

Options :

61198754629. 1  
61198754630. 2  
61198754631. 3  
61198754632. 4

Question Number : 34 Question Id : 61198714022 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following statements are true with reference to the evolution of WWW?

- A. Web 2.0 is the "participative social web"
- B. Web 1.0 is the "read-only web"
- C. Three main applications of Web 2.0 are YouTube, Wikis and Blogs
- D. Web 3.0 is the "read, write, execute web"

Choose the **correct** answer from the options given below:

1. A, B and C Only
2. A and C Only
3. B and D Only
4. A, B, C and D

Options :

61198754633. 1  
61198754634. 2  
61198754635. 3  
61198754636. 4

Question Number : 34 Question Id : 61198714022 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

WWW के क्रमिक विकास के संदर्भ में निम्न में से कौन से कथन सही हैं?

- A. वेब 2.0 "प्रतिभागी सामाजिक वेब" है।
- B. वेब 1.0 "केवल पठनीय वेब" है।
- C. वेब 2.0 के तीन प्रमुख अनुप्रयोग हैं यू-ट्यूब, विकीज व ब्लॉग।
- D. वेब 3.0 "पढ़ें, लिखें और निष्पादित करें वेब" है।

नीचे दिए गए विकल्पों में से सही उत्तर चुनें:

- 1. केवल A, B और C
- 2. केवल A और C
- 3. केवल B और D
- 4. A, B, C और D

Options :

- 61198754633. 1
- 61198754634. 2
- 61198754635. 3
- 61198754636. 4

Question Number : 35 Question Id : 61198714023 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

If  $(L)_M$  represents a number L in base M number system, then identify the correct ascending order of the following numbers A-D, when converted to decimal number system.

- A.  $(333.2)_4$
- B.  $(111111.11)_2$
- C.  $(77.2)_8$
- D.  $(3F.6)_{16}$

Choose the **correct** answer from the options given below:

- 1. B, D, A, C
- 2. C, D, A, B
- 3. A, D, B, C
- 4. C, D, B, A

Options :

- 61198754637. 1
- 61198754638. 2
- 61198754639. 3
- 61198754640. 4

Question Number : 35 Question Id : 61198714023 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

यदि आधार M संख्या प्रणाली में  $(L)_M$  संख्या L को दर्शाता है तो दशमलव संख्या प्रणाली में परिवर्तन किए जाने पर निम्न संख्याओं A-D के सही आरोही क्रम की पहचान कीजिए।

- A.  $(333.2)_4$
- B.  $(111111.11)_2$
- C.  $(77.2)_8$
- D.  $(3F.6)_{16}$

नीचे दिए गए विकल्पों में से सही उत्तर चुनें:

- 1. B, D, A, C
- 2. C, D, A, B
- 3. A, D, B, C
- 4. C, D, B, A

Options :

- 61198754637. 1
- 61198754638. 2
- 61198754639. 3
- 61198754640. 4

Question Number : 36 Question Id : 61198714024 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

When did India become party to Convention on Biodiversity (CBD)?

- 1. 1992
- 2. 1993
- 3. 1994
- 4. 1995

Options :

- 61198754641. 1
- 61198754642. 2
- 61198754643. 3
- 61198754644. 4

Question Number : 36 Question Id : 61198714024 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

भारत जैव विविधता संबंधी अभिसमय (CBD) में कब शामिल हुआ था?

- 1. 1992
- 2. 1993
- 3. 1994
- 4. 1995

Options :

- 61198754641. 1
- 61198754642. 2
- 61198754643. 3
- 61198754644. 4

Question Number : 37 Question Id : 61198714025 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is a kind of wave generated during an earthquake?

1. N-Wave
2. O-Wave
3. P-Wave
4. Q-Wave

Options :

61198754645. 1  
61198754646. 2  
61198754647. 3  
61198754648. 4

Question Number : 37 Question Id : 61198714025 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्न में से कौन भूकंप के दौरान उत्पन्न एक प्रकार की तरंग है?

1. N-तरंग
2. O-तरंग
3. P-तरंग
4. Q-तरंग

Options :

61198754645. 1  
61198754646. 2  
61198754647. 3  
61198754648. 4

Question Number : 38 Question Id : 61198714026 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Geothermal power plants are much like fossil and nuclear plants with exception of no requirements of:

- A. Vapour dominated hydrothermal resources
- B. Boiler
- C. Fission reactor
- D. Turbine generator

Choose the **correct** answer from the options given below:

1. A, B and C Only
2. B and C Only
3. A and D Only
4. B, C and D Only

Options :

61198754649. 1  
61198754650. 2  
61198754651. 3  
61198754652. 4

Question Number : 38 Question Id : 61198714026 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

भूतापीय ऊर्जा संयंत्र, जीवाश्मी व नाभिकीय संयंत्रों के अत्यधिक समान होते हैं सिवाय निम्न की आवश्यकता के बिना

- A. वाष्प प्रधान जलतापीय संसाधन
- B. बॉयलर
- C. विखंडन रिएक्टर
- D. टर्बाइन जनरेटर

नीचे दिए गए विकल्पों में से **सही** उत्तर चुनें:

- 1. केवल A, B और C
- 2. केवल B और C
- 3. केवल A और D
- 4. केवल B, C और D

Options :

- 61198754649. 1
- 61198754650. 2
- 61198754651. 3
- 61198754652. 4

Question Number : 39 Question Id : 61198714027 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

What is the correct increasing order of Global Warming Potential (GWP) of the following Green House Gases (GHGs)?

- A. CFC - 11 (Chlorofluorocarbon - 11)
- B. CH<sub>4</sub> (Methane)
- C. CO<sub>2</sub> (Carbon dioxide)
- D. N<sub>2</sub>O (Nitrous oxide)

Choose the **correct** answer from the options given below:

- 1. A, B, D, C
- 2. C, B, D, A
- 3. C, D, B, A
- 4. A, D, B, C

Options :

- 61198754653. 1
- 61198754654. 2
- 61198754655. 3
- 61198754656. 4

Question Number : 39 Question Id : 61198714027 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्न ग्रीन हाउस गैसों (GHGs) की वैश्विक तापन क्षमता (GWP) का आरोही क्रम क्या है?

- A. CFC - 11 (क्लोरोफ्लूरोकार्बन - 11)
- B. CH<sub>4</sub> (मीथेन)
- C. CO<sub>2</sub> (कार्बन डाईऑक्साइड)
- D. N<sub>2</sub>O (नाइट्रस ऑक्साइड)

नीचे दिए गए विकल्पों में से **सही** उत्तर चुनें:

- 1. A, B, D, C
- 2. C, B, D, A
- 3. C, D, B, A
- 4. A, D, B, C

Options :

- 61198754653. 1
- 61198754654. 2
- 61198754655. 3
- 61198754656. 4

Question Number : 40 Question Id : 61198714028 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

In which of the water treatment processes additional BOD (Biological Oxygen Demand) is provided to remove the biological material?

- 1. Primary Treatment Process
- 2. Secondary Treatment Process
- 3. Tertiary Treatment Process
- 4. Advanced Treatment Process

Options :

- 61198754657. 1
- 61198754658. 2
- 61198754659. 3
- 61198754660. 4

**Question Number : 40 Question Id : 61198714028 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

निम्न में से किस जलशोधन प्रक्रिया में जैविक सामग्री को हटाने के लिए अतिरिक्त BOD (जैव ऑक्सीजन मांग) प्रदान किया जाता है?

1. प्राथमिक शोधन प्रक्रिया
2. द्वितीयक शोधन प्रक्रिया
3. तृतीयक शोधन प्रक्रिया
4. उन्नत शोधन प्रक्रिया

**Options :**

61198754657. 1  
61198754658. 2  
61198754659. 3  
61198754660. 4

**Question Number : 41 Question Id : 61198714029 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

The Simla conference of 1901 was described by Lord Curzon as:

1. High-level Education Commission
2. High Power Education Commission
3. Secret Education Commission
4. Confidential Education Commission

**Options :**

61198754661. 1  
61198754662. 2  
61198754663. 3  
61198754664. 4

**Question Number : 41 Question Id : 61198714029 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

वर्ष 1901 शिमला सम्मेलन का वर्णन लॉर्ड कर्जन ने निम्नलिखित प्रकार से किया था:

1. उच्च-स्तरीय शिक्षा आयोग
2. उच्चाधिकार प्राप्त शिक्षा आयोग
3. गुप्त शिक्षा आयोग
4. गोपनीय शिक्षा आयोग

**Options :**

61198754661. 1  
61198754662. 2  
61198754663. 3  
61198754664. 4

Question Number : 42 Question Id : 61198714030 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following ancient university was situated on the banks of the river Krishna in Vidarbha?

1. Sridhanya Katak
2. Talkshashila
3. Nalanda
4. Sakya

Options :

61198754665. 1  
61198754666. 2  
61198754667. 3  
61198754668. 4

Question Number : 42 Question Id : 61198714030 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्न में से कौन सा प्राचीन विश्वविद्यालय विदर्भ में कृष्णा नदी के किनारे स्थित था?

1. श्रीधन्य कटक
2. तक्षशिला
3. नालंदा
4. शाक्य

Options :

61198754665. 1  
61198754666. 2  
61198754667. 3  
61198754668. 4

Question Number : 43 Question Id : 61198714031 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following universities were considered as Institutions of National Importance at the commencement of constitution?

- A. Benares Hindu University
- B. Aligarh Muslim University
- C. Delhi University
- D. Hyderabad University
- E. Calicut University

Choose the **correct** answer from the options given below:

1. A, B and C Only
2. B, C and D Only
3. C, D and E Only
4. A, D and E Only

Options :

61198754669. 1  
61198754670. 2  
61198754671. 3  
61198754672. 4

Question Number : 43 Question Id : 61198714031 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्नलिखित में से कौन से विश्वविद्यालय संविधान के आरंभ के समय राष्ट्रीय महत्व के संस्थान समझे जाते थे?

- A. बनारस हिंदू विश्वविद्यालय
- B. अलीगढ़ मुस्लिम विश्वविद्यालय
- C. दिल्ली विश्वविद्यालय
- D. हैदराबाद विश्वविद्यालय
- E. कालीकट विश्वविद्यालय

नीचे दिए गए विकल्पों में से **सही** उत्तर चुनें:

- 1. केवल A, B और C
- 2. केवल B, C और D
- 3. केवल C, D और E
- 4. केवल A, D और E

Options :

- 61198754669. 1
- 61198754670. 2
- 61198754671. 3
- 61198754672. 4

Question Number : 44 Question Id : 61198714032 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Environmental education must include topics of:

- A. Personal hygiene
- B. Biological diversity
- C. Waste management
- D. Pollution
- E. Wildlife conservation

Choose the **correct** answer from the options given below:

- 1. A, B and C Only
- 2. B, C, D and E Only
- 3. A, B, D and E Only
- 4. A, C, D and E Only

Options :

- 61198754673. 1
- 61198754674. 2
- 61198754675. 3
- 61198754676. 4

Question Number : 44 Question Id : 61198714032 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

पर्यावरण संबंधी शिक्षा में निम्नलिखित विषयों को अवश्य शामिल किया जाना चाहिए:

- A. व्यक्तिगत स्वच्छता
- B. जैविक विविधता
- C. कचरा प्रबंधन
- D. प्रदूषण
- E. वन्य जीव संरक्षण

नीचे दिए गए विकल्पों में से सही उत्तर चुनें:

- 1. केवल A, B और C
- 2. केवल B, C, D और E
- 3. केवल A, B, D और E
- 4. केवल A, C, D और E

Options :

- 61198754673. 1
- 61198754674. 2
- 61198754675. 3
- 61198754676. 4

Question Number : 45 Question Id : 61198714033 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>(Commission/Committee) |                                   | LIST-II<br>(Chairman) |                  |
|----------------------------------|-----------------------------------|-----------------------|------------------|
| A.                               | First Indian Education Commission | I.                    | T. Raleigh       |
| B.                               | Indian University Commission      | II.                   | M. E. Sadlar     |
| C.                               | Calcutta University Commission    | III.                  | J. E. D. Bethune |
| D.                               | Council of Education              | IV.                   | W. W. Hunter     |

Choose the **correct** answer from the options given below:

- 1. A-I, B-II, C-III, D-IV
- 2. A-II, B-III, C-IV, D-I
- 3. A-III, B-IV, C-I, D-II
- 4. A-IV, B-I, C-II, D-III

Options :

- 61198754677. 1
- 61198754678. 2
- 61198754679. 3
- 61198754680. 4

Question Number : 45 Question Id : 61198714033 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

सूची -I को सूची-II से सुमेलित करें

| सूची -I<br>(आयोग/समिति) |                            | सूची -II<br>(अध्यक्ष) |                      |
|-------------------------|----------------------------|-----------------------|----------------------|
| A.                      | प्रथम भारतीय शिक्षा आयोग   | I.                    | टी. राले             |
| B.                      | भारतीय विश्वविद्यालय आयोग  | II.                   | एम.ई. सैडलर          |
| C.                      | कोलकाता विश्वविद्यालय आयोग | III.                  | जे.ई.डी. बेथून       |
| D.                      | शिक्षा परिषद               | IV.                   | डबल्यू. डबल्यू. हंटर |

नीचे दिए गए विकल्पों में से सही विकल्प चुनें:

1. A-I, B-II, C-III, D-IV
2. A-II, B-III, C-IV, D-I
3. A-III, B-IV, C-I, D-II
4. A-IV, B-I, C-II, D-III

Options :

61198754677. 1

61198754678. 2

61198754679. 3

61198754680. 4

Sub-Section Number :

3

Sub-Section Id :

611987547

Question Shuffling Allowed :

No

Is Section Default? :

No

**Question Id : 61198714034 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group**

**Comprehension Questions : No Question Pattern Type : NonMatrix**

**Question Numbers : (46 to 50)**

**Question Label : Comprehension**

**Read the passage given below and answer the question that follow:**

Before delving into the role that missionary schools played in the emergence of Indian nationalism, it is necessary to understand the broader context in which Christian missionaries had been religious actors in the Indian subcontinent since the 1700s. With the rise of British power under the East India Company, and later the crown, missionaries of various denominations made India one of their largest areas of activity. This was especially true after the amendment of the company's charter in 1813, which allowed missionaries unhindered access to the company's domains. But it was through their involvement in new forms of education that the missionaries made a significant and perhaps the most lasting impact.

Many 'educational missionaries' initially saw Western learning and knowledge as a stepping stone to spreading Christianity. By the 1870s, however, this approach to the conversion of India's Brahmins and other high castes had largely fallen out of favor. By then, the most active Anglican missionary societies - The Church Missionary Society (CMS), The London Missionary Society (LMS), The Society for the Propagation of the Gospel (SPG), and the Cambridge Mission to Delhi (CMD) - were mostly involved in teaching in high schools and colleges across North India. In the United Provinces, India's most populous province, these societies ran half of the high schools and colleges. American missionary societies, by contrast, worked overwhelmingly with the lower-caste communities and were far less involved in higher levels of education. Anglican mission schools, therefore, interacted with the very groups and communities who would go on to lead the Indian nationalist movement.

**Sub questions**

**Question Number : 46 Question Id : 61198714035 Question Type : MCQ Option Shuffling : No Display Question**

**Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

Which of the following societies was involved in teaching in high schools and colleges of North India?

1. American Missionary Society
2. European Missionary Society
3. Anglican Missionary Societies
4. Central Indian Missionary Society

**Options :**

- 61198754681. 1
- 61198754682. 2
- 61198754683. 3
- 61198754684. 4

**Question Number : 47 Question Id : 61198714036 Question Type : MCQ Option Shuffling : No Display Question**

**Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

'Educational missionaries' initially find western learning as:

1. A way to spread business
2. A way to improve community health
3. A way to have a political control
4. A way to spread Christianity

**Options :**

- 61198754685. 1
- 61198754686. 2
- 61198754687. 3
- 61198754688. 4

**Question Number : 48 Question Id : 61198714037 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

When did Christian missionaries start their activities in the Indian subcontinent?

1. 1600s
2. 1700s
3. 1800s
4. 1900s

**Options :**

61198754689. 1  
61198754690. 2  
61198754691. 3  
61198754692. 4

**Question Number : 49 Question Id : 61198714038 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

Which of the following was not an active Anglican missionary society?

1. The Church Missionary Society (CMS)
2. The London Missionary Society (LMS)
3. The Society for the Propagation of the Gospel (SPG)
4. American Missionary Society (AMS)

**Options :**

61198754693. 1  
61198754694. 2  
61198754695. 3  
61198754696. 4

**Question Number : 50 Question Id : 61198714039 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

Which of the following predominantly worked with the lower caste communities in India?

1. The Church Missionary Society (CMS)
2. American Missionary Society (AMS)
3. The London Missionary Society (LMS)
4. The Society for the Propagation of the Gospel (SPG)

**Options :**

61198754697. 1  
61198754698. 2  
61198754699. 3  
61198754700. 4

Question Id : 61198714034 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group

Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (46 to 50)

Question Label : Comprehension

**निम्नलिखित गद्यांश को पढ़िए और उत्तर दीजिए:**

भारतीय राष्ट्रवाद के उदय में मिशनरी विद्यालयों द्वारा निभाई गई भूमिका में जाने से पहले उसे वृहत्तर संदर्भ को समझना आवश्यक है जिसमें भारतीय उपमहाद्वीप में सत्रहवीं शताब्दी (1700s) से ही ईसाई प्रचारक धार्मिक कार्यकर्ता रहे थे। ईस्ट इंडिया कंपनी और बाद में ब्रिटिश ताज के अधीन ब्रिटिश शक्ति के उभार के साथ, विभिन्न शाखाओं के प्रचारकों ने भारत को अपने क्रियाकलापों का एक सर्वाधिक बड़ा क्षेत्र बना लिया था। यह 1813 में कंपनी के चार्टर में हुए संशोधन के बाद की अवधि के लिए विशेष रूप से सत्य था जिसने ईसाई प्रचारकों को कंपनी के अधिकार क्षेत्र में निर्बाध पहुँच की अनुमति दी। परन्तु शिक्षा के नए रूपों में ईसाई प्रचारकों की भागीदारी से उन्होंने महत्वपूर्ण और संभवतया सर्वाधिक दीर्घकालिक प्रभाव डाला।

अनेक 'शैक्षिक मिशनरियों' ने आरंभ में पश्चिमी अधिगम और ज्ञान को ईसाई धर्म के प्रचार के साधन के रूप में देखा। तथापि 1870 के दशक तक भारत के ब्राह्मणों व अन्य उच्च जातियों के रूपांतरण का यह दृष्टिकोण मुख्यतया अननुकूल हो गया था। तब तक सर्वाधिक सक्रिय एंग्लिकन मिशनरी सोसायटियां – चर्च मिशनरी सोसायटी (CMS), द लंदन मिशनरी सोसायटी (LMS), द सोसायटी फॉर द प्रोपगेशन ऑफ द गास्पेल (SPG) और केंब्रिज मिशन टू दिल्ली (CMD) – अधिकांश उत्तर भारत के हाई स्कूलों और महाविद्यालयों में शिक्षण में व्यस्त थीं। संयुक्त प्रांत में भारत की सर्वाधिक जनसंख्या वाले प्रदेश, ये सोसायटियां आधे से अधिक हाई स्कूल व महाविद्यालय चलाती थीं। इसके विपरीत अमरीकी मिशनरी सोसायटियां मुख्यतया निम्न जाति समुदायों में कार्यरत थीं और शिक्षा के उच्च स्तरों में कहीं कम शामिल थीं। अतः एंग्लिकन मिशन स्कूल उन्हीं समूहों व समुदायों से अंतःक्रिया कर रहे थे जिन्होंने आगे चलकर भारतीय राष्ट्रवादी आंदोलन का नेतृत्व किया।

**Sub questions**

Question Number : 46 Question Id : 61198714035 Question Type : MCQ Option Shuffling : No Display Question

Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्न में से कौन सी सोसायटियां उत्तर भारत के हाई स्कूलों व महाविद्यालयों में शिक्षण में अंतर्ग्रस्त थीं?

1. अमेरिकन मिशनरी सोसायटी
2. यूरोपियन मिशनरी सोसायटी
3. एंग्लियन मिशनरी सोसायटियां
4. सेंट्रल मिशनरी सोसायटी

**Options :**

61198754681. 1  
61198754682. 2  
61198754683. 3  
61198754684. 4

Question Number : 47 Question Id : 61198714036 Question Type : MCQ Option Shuffling : No Display Question

Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

आरंभ में अनेक 'शैक्षिक प्रचारक' मिशनरी अधिगम को किस रूप में पाते थे?

1. व्यापार प्रसार का एक तरीका
2. सामुदायिक स्वास्थ्य में सुधार का एक तरीका
3. राजनीतिक नियंत्रण का एक तरीका
4. ईसाई धर्म प्रसार का एक तरीका

**Options :**

61198754685. 1

61198754686. 2

61198754687. 3

61198754688. 4

**Question Number : 48 Question Id : 61198714037 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

ईसाई प्रचारकों ने भारतीय उप-महाद्वीप में अपनी गतिविधियाँ कब आरंभ की थी?

1. 1600s

2. 1700s

3. 1800s

4. 1900s

**Options :**

61198754689. 1

61198754690. 2

61198754691. 3

61198754692. 4

**Question Number : 49 Question Id : 61198714038 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

निम्न में से कौन एक सक्रिय एंग्लिकन मिशनरी सोसायटी नहीं थी?

1. द चर्च मिशनरी सोसायटी (CMS)

2. द लंडन मिशनरी सोसायटी (LMS)

3. द सोसायटी फॉर द प्रोपेगेशन ऑफ द गॉस्पेल (SPG)

4. अमेरिकन मिशनरी सोसायटी (AMS)

**Options :**

61198754693. 1

61198754694. 2

61198754695. 3

61198754696. 4

**Question Number : 50 Question Id : 61198714039 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

निम्नलिखित में से किसने भारत में निम्नवर्ग के समुदायों के साथ प्रमुखता से काम किया था?

1. द चर्च मिशनरी सोसायटी (CMS)

2. अमेरिकन मिशनरी सोसायटी (AMS)

3. द लंडन मिशनरी सोसायटी (LMS)

4. द सोसायटी फॉर द प्रोपेगेशन ऑफ द गॉस्पेल (SPG)

**Options :**

61198754697. 1

61198754698. 2

61198754699. 3

61198754700. 4

## Environmental Sciences

|                                       |           |
|---------------------------------------|-----------|
| Section Id :                          | 611987184 |
| Section Number :                      | 2         |
| Section type :                        | Online    |
| Mandatory or Optional :               | Mandatory |
| Number of Questions :                 | 92        |
| Number of Questions to be attempted : | 92        |
| Section Marks :                       | 200       |
| Maximum Instruction Time :            | 0         |
| Sub-Section Number :                  | 1         |
| Sub-Section Id :                      | 611987548 |
| Question Shuffling Allowed :          | Yes       |
| Is Section Default? :                 | No        |

Question Number : 51 Question Id : 61198714040 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>Radioactive Parent |              | LIST-II<br>Half-life value |                     |
|------------------------------|--------------|----------------------------|---------------------|
| A.                           | Rubidium-87  | I.                         | ~ 4.5 billion years |
| B.                           | Potassium-40 | II.                        | ~ 47 billion years  |
| C.                           | Uranium-238  | III.                       | ~ 1.3 billion years |
| D.                           | Carbon-14    | IV.                        | ~ 5730 years        |

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-III, C-I, D-IV
3. A-III, B-I, C-II, D-IV
4. A-II, B-I, C-III, D-IV

Options :

61198754701. 1  
61198754702. 2  
61198754703. 3  
61198754704. 4

Question Number : 51 Question Id : 61198714040 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>Radioactive Parent |              | LIST-II<br>Half-life value |                     |
|------------------------------|--------------|----------------------------|---------------------|
| A.                           | Rubidium-87  | I.                         | ~ 4.5 billion years |
| B.                           | Potassium-40 | II.                        | ~ 47 billion years  |
| C.                           | Uranium-238  | III.                       | ~ 1.3 billion years |
| D.                           | Carbon-14    | IV.                        | ~ 5730 years        |

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-III, C-I, D-IV
3. A-III, B-I, C-II, D-IV
4. A-II, B-I, C-III, D-IV

Options :

61198754701. 1  
61198754702. 2  
61198754703. 3  
61198754704. 4

Question Number : 52 Question Id : 61198714041 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>(Purpose/Application) |                                                              | LIST-II<br>(Statistical tests) |                    |
|---------------------------------|--------------------------------------------------------------|--------------------------------|--------------------|
| A.                              | Testing the significance of regression coefficients          | I.                             | Durbin Watson test |
| B.                              | Comparing more than two sample means                         | II.                            | Chi square test    |
| C.                              | Testing the goodness of fit                                  | III.                           | t-test             |
| D.                              | Testing the significance of autocorrelation in a time series | IV.                            | F-test             |

Choose the **correct** answer from the options given below:

1. A-III, B-II, C-I, D-IV
2. A-IV, B-III, C-II, D-I
3. A-III, B-IV, C-II, D-I
4. A-IV, B-II, C-I, D-III

Options :

61198754705. 1  
61198754706. 2  
61198754707. 3  
61198754708. 4

Question Number : 52 Question Id : 61198714041 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>(Purpose/Application) |                                                              | LIST-II<br>(Statistical tests) |                    |
|---------------------------------|--------------------------------------------------------------|--------------------------------|--------------------|
| A.                              | Testing the significance of regression coefficients          | I.                             | Durbin Watson test |
| B.                              | Comparing more than two sample means                         | II.                            | Chi square test    |
| C.                              | Testing the goodness of fit                                  | III.                           | t-test             |
| D.                              | Testing the significance of autocorrelation in a time series | IV.                            | F-test             |

Choose the **correct** answer from the options given below:

1. A-III, B-II, C-I, D-IV
2. A-IV, B-III, C-II, D-I
3. A-III, B-IV, C-II, D-I
4. A-IV, B-II, C-I, D-III

Options :

61198754705. 1  
61198754706. 2  
61198754707. 3  
61198754708. 4

Question Number : 53 Question Id : 61198714042 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>Total sum of squares (TSS)<br>Error sum of squares (ESS) |                   | LIST-II<br>Coefficient of determination ( $R^2$ ) |              |
|--------------------------------------------------------------------|-------------------|---------------------------------------------------|--------------|
| A.                                                                 | ESS = 30 TSS = 80 | I.                                                | $\sim 0.63$  |
| B.                                                                 | ESS = 40 TSS = 90 | II.                                               | $\sim 0.66$  |
| C.                                                                 | ESS = 25 TSS = 75 | III.                                              | $\sim 0.625$ |
| D.                                                                 | ESS = 35 TSS = 95 | IV.                                               | $\sim 0.55$  |

Choose the **correct** answer from the options given below:

1. A-IV, B-III, C-II, D-I
2. A-III, B-IV, C-II, D-I
3. A-IV, B-I, C-III, D-II
4. A-III, B-II, C-IV, D-I

Options :

61198754709. 1  
61198754710. 2  
61198754711. 3  
61198754712. 4

Question Number : 53 Question Id : 61198714042 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>Total sum of squares (TSS)<br>Error sum of squares (ESS) |                   | LIST-II<br>Coefficient of determination ( $R^2$ ) |              |
|--------------------------------------------------------------------|-------------------|---------------------------------------------------|--------------|
| A.                                                                 | ESS = 30 TSS = 80 | I.                                                | $\sim 0.63$  |
| B.                                                                 | ESS = 40 TSS = 90 | II.                                               | $\sim 0.66$  |
| C.                                                                 | ESS = 25 TSS = 75 | III.                                              | $\sim 0.625$ |
| D.                                                                 | ESS = 35 TSS = 95 | IV.                                               | $\sim 0.55$  |

Choose the **correct** answer from the options given below:

1. A-IV, B-III, C-II, D-I
2. A-III, B-IV, C-II, D-I
3. A-IV, B-I, C-III, D-II
4. A-III, B-II, C-IV, D-I

Options :

61198754709. 1

61198754710. 2

61198754711. 3

61198754712. 4

Question Number : 54 Question Id : 61198714043 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>(Plastic Label) |   | LIST-II<br>(Type of Plastic Material) |                                               |
|---------------------------|---|---------------------------------------|-----------------------------------------------|
| A.                        | 7 | I.                                    | Polyethylene Terephthalate                    |
| B.                        | 1 | II.                                   | Polypropylene                                 |
| C.                        | 5 | III.                                  | Low Density Polyethylene                      |
| D.                        | 4 | IV.                                   | Acrylonitrile Butadiene Styrene/Mixed Plastic |

Choose the **correct** answer from the options given below:

1. A-IV, B-II, C-III, D-I
2. A-I, B-II, C-III, D-IV
3. A-II, B-IV, C-III, D-I
4. A-IV, B-I, C-II, D-III

Options :

61198754713. 1

61198754714. 2

61198754715. 3

61198754716. 4

Question Number : 54 Question Id : 61198714043 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>(Plastic Label) |   | LIST-II<br>(Type of Plastic Material) |                                               |
|---------------------------|---|---------------------------------------|-----------------------------------------------|
| A.                        | 7 | I.                                    | Polyethylene Terephthalate                    |
| B.                        | 1 | II.                                   | Polypropylene                                 |
| C.                        | 5 | III.                                  | Low Density Polyethylene                      |
| D.                        | 4 | IV.                                   | Acrylonitrile Butadiene Styrene/Mixed Plastic |

Choose the **correct** answer from the options given below:

1. A-IV, B-II, C-III, D-I
2. A-I, B-II, C-III, D-IV
3. A-II, B-IV, C-III, D-I
4. A-IV, B-I, C-II, D-III

Options :

61198754713. 1  
61198754714. 2  
61198754715. 3  
61198754716. 4

Question Number : 55 Question Id : 61198714044 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>(Microwave Bands) |    | LIST-II<br>Frequency Range (GHz) |           |
|-----------------------------|----|----------------------------------|-----------|
| A.                          | P  | I.                               | 12.5 - 18 |
| B.                          | S  | II.                              | 4 - 8     |
| C.                          | C  | III.                             | 2 - 4     |
| D.                          | Ku | IV.                              | 0.3 - 1   |

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-III, C-IV, D-I
3. A-III, B-IV, C-I, D-II
4. A-IV, B-III, C-II, D-I

Options :

61198754717. 1  
61198754718. 2  
61198754719. 3  
61198754720. 4

Question Number : 55 Question Id : 61198714044 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>(Microwave Bands) |    | LIST-II<br>Frequency Range (GHz) |           |
|-----------------------------|----|----------------------------------|-----------|
| A.                          | P  | I.                               | 12.5 - 18 |
| B.                          | S  | II.                              | 4 - 8     |
| C.                          | C  | III.                             | 2 - 4     |
| D.                          | Ku | IV.                              | 0.3 - 1   |

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-III, C-IV, D-I
3. A-III, B-IV, C-I, D-II
4. A-IV, B-III, C-II, D-I

Options :

61198754717. 1  
61198754718. 2  
61198754719. 3  
61198754720. 4

Question Number : 56 Question Id : 61198714045 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>Biomedical Waste |                        | LIST-II<br>Color of Collection Bag/Container |        |
|----------------------------|------------------------|----------------------------------------------|--------|
| A.                         | Intravenous tubes      | I.                                           | Yellow |
| B.                         | Medicine vials         | II.                                          | White  |
| C.                         | Human Anatomical Waste | III.                                         | Red    |
| D.                         | Blades                 | IV.                                          | Blue   |

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-III, B-IV, C-I, D-II
3. A-II, B-I, C-III, D-IV
4. A-I, B-IV, C-III, D-II

Options :

61198754721. 1  
61198754722. 2  
61198754723. 3  
61198754724. 4

Question Number : 56 Question Id : 61198714045 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>Biomedical Waste |                        | LIST-II<br>Color of Collection Bag/Container |        |
|----------------------------|------------------------|----------------------------------------------|--------|
| A.                         | Intravenous tubes      | I.                                           | Yellow |
| B.                         | Medicine vials         | II.                                          | White  |
| C.                         | Human Anatomical Waste | III.                                         | Red    |
| D.                         | Blades                 | IV.                                          | Blue   |

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-III, B-IV, C-I, D-II
3. A-II, B-I, C-III, D-IV
4. A-I, B-IV, C-III, D-II

Options :

61198754721. 1  
61198754722. 2  
61198754723. 3  
61198754724. 4

Question Number : 57 Question Id : 61198714046 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>Characteristics |                                                                      | LIST-II<br>Biomes |                     |
|---------------------------|----------------------------------------------------------------------|-------------------|---------------------|
| A.                        | Tropical grasslands with scattered trees, loamy sand soils           | I.                | Tundra              |
| B.                        | Tropical humid, tall trees, nutrient poor and acidic soils           | II.               | Desert              |
| C.                        | Polar, low temperature, treeless, permafrost                         | III.              | Savanna             |
| D.                        | Sub-tropical, evaporation more than precipitation, sparse vegetation | IV.               | Tropical Rainforest |

Choose the **correct** answer from the options given below:

1. A-III, B-IV, C-II, D-I
2. A-IV, B-II, C-I, D-III
3. A-IV, B-III, C-II, D-I
4. A-III, B-IV, C-I, D-II

Options :

61198754725. 1  
61198754726. 2  
61198754727. 3  
61198754728. 4

Question Number : 57 Question Id : 61198714046 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>Characteristics |                                                                      | LIST-II<br>Biomes |                     |
|---------------------------|----------------------------------------------------------------------|-------------------|---------------------|
| A.                        | Tropical grasslands with scattered trees, loamy sand soils           | I.                | Tundra              |
| B.                        | Tropical humid, tall trees, nutrient poor and acidic soils           | II.               | Desert              |
| C.                        | Polar, low temperature, treeless, permafrost                         | III.              | Savanna             |
| D.                        | Sub-tropical, evaporation more than precipitation, sparse vegetation | IV.               | Tropical Rainforest |

Choose the **correct** answer from the options given below:

1. A-III, B-IV, C-II, D-I
2. A-IV, B-II, C-I, D-III
3. A-IV, B-III, C-II, D-I
4. A-III, B-IV, C-I, D-II

Options :

61198754725. 1  
61198754726. 2  
61198754727. 3  
61198754728. 4

Question Number : 58 Question Id : 61198714047 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>Soil Orders |           | LIST-II<br>Typical Soils |                       |
|-----------------------|-----------|--------------------------|-----------------------|
| A.                    | Histosols | I.                       | Conifer forest soils  |
| B.                    | Oxisols   | II.                      | Organic soils         |
| C.                    | Spodosols | III.                     | Swelling clay soils   |
| D.                    | Vertisols | IV.                      | Tropical forest soils |

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-IV, C-I, D-III
3. A-II, B-IV, C-III, D-I
4. A-IV, B-II, C-I, D-III

Options :

61198754729. 1  
61198754730. 2  
61198754731. 3  
61198754732. 4

Question Number : 58 Question Id : 61198714047 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>Soil Orders |           | LIST-II<br>Typical Soils |                       |
|-----------------------|-----------|--------------------------|-----------------------|
| A.                    | Histosols | I.                       | Conifer forest soils  |
| B.                    | Oxisols   | II.                      | Organic soils         |
| C.                    | Spodosols | III.                     | Swelling clay soils   |
| D.                    | Vertisols | IV.                      | Tropical forest soils |

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-IV, C-I, D-III
3. A-II, B-IV, C-III, D-I
4. A-IV, B-II, C-I, D-III

Options :

61198754729. 1  
61198754730. 2  
61198754731. 3  
61198754732. 4

Question Number : 59 Question Id : 61198714048 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>Stages of Wilson Cycle |           | LIST-II<br>Example of stages |                          |
|----------------------------------|-----------|------------------------------|--------------------------|
| A.                               | Embryonic | I.                           | Red sea                  |
| B.                               | Juvenile  | II.                          | Pacific ocean            |
| C.                               | Mature    | III.                         | East African rift valley |
| D.                               | Declining | IV.                          | Atlantic ocean           |

Choose the **correct** answer from the options given below:

1. A-III, B-IV, C-I, D-II
2. A-I, B-II, C-III, D-IV
3. A-III, B-I, C-IV, D-II
4. A-I, B-III, C-IV, D-II

Options :

61198754733. 1  
61198754734. 2  
61198754735. 3  
61198754736. 4

Question Number : 59 Question Id : 61198714048 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>Stages of Wilson Cycle |           | LIST-II<br>Example of stages |                          |
|----------------------------------|-----------|------------------------------|--------------------------|
| A.                               | Embryonic | I.                           | Red sea                  |
| B.                               | Juvenile  | II.                          | Pacific ocean            |
| C.                               | Mature    | III.                         | East African rift valley |
| D.                               | Declining | IV.                          | Atlantic ocean           |

Choose the **correct** answer from the options given below:

1. A-III, B-IV, C-I, D-II
2. A-I, B-II, C-III, D-IV
3. A-III, B-I, C-IV, D-II
4. A-I, B-III, C-IV, D-II

Options :

61198754733. 1  
61198754734. 2  
61198754735. 3  
61198754736. 4

Question Number : 60 Question Id : 61198714049 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>(Biomass Conversion Methods) |                       | LIST-II<br>(Biofuels/Energy) |                       |
|----------------------------------------|-----------------------|------------------------------|-----------------------|
| A.                                     | Physical Method       | I.                           | Biogas                |
| B.                                     | Incineration          | II.                          | Gas/Oil/Char          |
| C.                                     | Thermochemical Method | III.                         | Briquetts and Pellets |
| D.                                     | Biochemical Method    | IV.                          | Direct Heat           |

Choose the **correct** answer from the options given below:

1. A-I, B-IV, C-III, D-II
2. A-III, B-II, C-IV, D-I
3. A-IV, B-III, C-II, D-I
4. A-III, B-IV, C-II, D-I

Options :

61198754737. 1  
61198754738. 2  
61198754739. 3  
61198754740. 4

Question Number : 60 Question Id : 61198714049 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>(Biomass Conversion Methods) |                       | LIST-II<br>(Biofuels/Energy) |                       |
|----------------------------------------|-----------------------|------------------------------|-----------------------|
| A.                                     | Physical Method       | I.                           | Biogas                |
| B.                                     | Incineration          | II.                          | Gas/Oil/Char          |
| C.                                     | Thermochemical Method | III.                         | Briquetts and Pellets |
| D.                                     | Biochemical Method    | IV.                          | Direct Heat           |

Choose the **correct** answer from the options given below:

1. A-I, B-IV, C-III, D-II
2. A-III, B-II, C-IV, D-I
3. A-IV, B-III, C-II, D-I
4. A-III, B-IV, C-II, D-I

Options :

61198754737. 1  
61198754738. 2  
61198754739. 3  
61198754740. 4

Question Number : 61 Question Id : 61198714050 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>(Fuels) |                   | LIST-II<br>(Typical energy content (MJ/kg)) |       |
|-------------------|-------------------|---------------------------------------------|-------|
| A.                | Crude Oil         | I.                                          | 27    |
| B.                | Wood (dry)        | II.                                         | 16-20 |
| C.                | Coal (Anthracite) | III.                                        | 32-33 |
| D.                | Bio-ethanol       | IV.                                         | 44    |

Choose the **correct** answer from the options given below:

1. A-III, B-II, C-IV, D-I
2. A-IV, B-II, C-III, D-I
3. A-IV, B-II, C-I, D-III
4. A-III, B-IV, C-II, D-I

Options :

61198754741. 1  
61198754742. 2  
61198754743. 3  
61198754744. 4

Question Number : 61 Question Id : 61198714050 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>(Fuels) |                   | LIST-II<br>(Typical energy content (MJ/kg)) |       |
|-------------------|-------------------|---------------------------------------------|-------|
| A.                | Crude Oil         | I.                                          | 27    |
| B.                | Wood (dry)        | II.                                         | 16-20 |
| C.                | Coal (Anthracite) | III.                                        | 32-33 |
| D.                | Bio-ethanol       | IV.                                         | 44    |

Choose the **correct** answer from the options given below:

1. A-III, B-II, C-IV, D-I
2. A-IV, B-II, C-III, D-I
3. A-IV, B-II, C-I, D-III
4. A-III, B-IV, C-II, D-I

Options :

61198754741. 1  
61198754742. 2  
61198754743. 3  
61198754744. 4

Question Number : 62 Question Id : 61198714051 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>(Name of Disease) |                   | LIST-II<br>(Disease Symptom) |                       |
|-----------------------------|-------------------|------------------------------|-----------------------|
| A.                          | Fluorosis         | I.                           | Skin lesions          |
| B.                          | Arsenocosis       | II.                          | Blueness of skin      |
| C.                          | Minamata disease  | III.                         | Skeletal deformity    |
| D.                          | Methemoglobinemia | IV.                          | Neurological disorder |

Choose the **correct** answer from the options given below:

1. A-III, B-IV, C-I, D-II
2. A-IV, B-I, C-III, D-II
3. A-III, B-I, C-IV, D-II
4. A-IV, B-III, C-I, D-II

Options :

61198754745. 1  
61198754746. 2  
61198754747. 3  
61198754748. 4

Question Number : 62 Question Id : 61198714051 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>(Name of Disease) |                   | LIST-II<br>(Disease Symptom) |                       |
|-----------------------------|-------------------|------------------------------|-----------------------|
| A.                          | Fluorosis         | I.                           | Skin lesions          |
| B.                          | Arsenocosis       | II.                          | Blueness of skin      |
| C.                          | Minamata disease  | III.                         | Skeletal deformity    |
| D.                          | Methemoglobinemia | IV.                          | Neurological disorder |

Choose the **correct** answer from the options given below:

1. A-III, B-IV, C-I, D-II
2. A-IV, B-I, C-III, D-II
3. A-III, B-I, C-IV, D-II
4. A-IV, B-III, C-I, D-II

Options :

61198754745. 1  
61198754746. 2  
61198754747. 3  
61198754748. 4

Question Number : 63 Question Id : 61198714052 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>(Particulate Control Devices) |                                | LIST-II<br>(Suitable Particle size range ( $\mu\text{m}$ )) |           |
|-----------------------------------------|--------------------------------|-------------------------------------------------------------|-----------|
| A.                                      | Gravitational Settling Chamber | I.                                                          | $\geq 50$ |
| B.                                      | Centrifugal Collector          | II.                                                         | $< 1$     |
| C.                                      | Wet Collector (Spray tower)    | III.                                                        | $\geq 10$ |
| D.                                      | Electrostatic Precipitator     | IV.                                                         | 5 - 25    |

Choose the **correct** answer from the options given below:

1. A-IV, B-I, C-III, D-II
2. A-I, B-IV, C-III, D-II
3. A-III, B-I, C-IV, D-II
4. A-III, B-IV, C-II, D-I

Options :

61198754749. 1  
61198754750. 2  
61198754751. 3  
61198754752. 4

Question Number : 63 Question Id : 61198714052 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>(Particulate Control Devices) |                                | LIST-II<br>(Suitable Particle size range ( $\mu\text{m}$ )) |           |
|-----------------------------------------|--------------------------------|-------------------------------------------------------------|-----------|
| A.                                      | Gravitational Settling Chamber | I.                                                          | $\geq 50$ |
| B.                                      | Centrifugal Collector          | II.                                                         | $< 1$     |
| C.                                      | Wet Collector (Spray tower)    | III.                                                        | $\geq 10$ |
| D.                                      | Electrostatic Precipitator     | IV.                                                         | 5 - 25    |

Choose the **correct** answer from the options given below:

1. A-IV, B-I, C-III, D-II
2. A-I, B-IV, C-III, D-II
3. A-III, B-I, C-IV, D-II
4. A-III, B-IV, C-II, D-I

Options :

61198754749. 1  
61198754750. 2  
61198754751. 3  
61198754752. 4

Question Number : 64 Question Id : 61198714053 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>(Greenhouse gas) |                      | LIST-II<br>(Fundamental Vibrational Mode) |    |
|----------------------------|----------------------|-------------------------------------------|----|
| A.                         | Water Vapor          | I.                                        | 15 |
| B.                         | Methane              | II.                                       | 3  |
| C.                         | Sulphur Hexafluoride | III.                                      | 9  |
| D.                         | Carbon dioxide       | IV.                                       | 4  |

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-IV, B-III, C-I, D-II
3. A-II, B-III, C-I, D-IV
4. A-III, B-I, C-II, D-IV

Options :

61198754753. 1  
61198754754. 2  
61198754755. 3  
61198754756. 4

Question Number : 64 Question Id : 61198714053 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>(Greenhouse gas) |                      | LIST-II<br>(Fundamental Vibrational Mode) |    |
|----------------------------|----------------------|-------------------------------------------|----|
| A.                         | Water Vapor          | I.                                        | 15 |
| B.                         | Methane              | II.                                       | 3  |
| C.                         | Sulphur Hexafluoride | III.                                      | 9  |
| D.                         | Carbon dioxide       | IV.                                       | 4  |

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-IV, B-III, C-I, D-II
3. A-II, B-III, C-I, D-IV
4. A-III, B-I, C-II, D-IV

Options :

61198754753. 1  
61198754754. 2  
61198754755. 3  
61198754756. 4

Question Number : 65 Question Id : 61198714054 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>(Soil Type) |                  | LIST-II<br>(Dominant Salt) |                          |
|-----------------------|------------------|----------------------------|--------------------------|
| A.                    | Calcareous soils | I.                         | NaCl                     |
| B.                    | Saline soils     | II.                        | $\text{Al}_2\text{O}_3$  |
| C.                    | Laterites        | III.                       | $\text{Na}_2\text{CO}_3$ |
| D.                    | Sodic soils      | IV.                        | $\text{CaCO}_3$          |

Choose the **correct** answer from the options given below:

1. A-IV, B-III, C-II, D-I
2. A-III, B-I, C-II, D-IV
3. A-IV, B-I, C-II, D-III
4. A-III, B-I, C-IV, D-II

Options :

61198754757. 1  
61198754758. 2  
61198754759. 3  
61198754760. 4

Question Number : 65 Question Id : 61198714054 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>(Soil Type) |                  | LIST-II<br>(Dominant Salt) |                          |
|-----------------------|------------------|----------------------------|--------------------------|
| A.                    | Calcareous soils | I.                         | NaCl                     |
| B.                    | Saline soils     | II.                        | $\text{Al}_2\text{O}_3$  |
| C.                    | Laterites        | III.                       | $\text{Na}_2\text{CO}_3$ |
| D.                    | Sodic soils      | IV.                        | $\text{CaCO}_3$          |

Choose the **correct** answer from the options given below:

1. A-IV, B-III, C-II, D-I
2. A-III, B-I, C-II, D-IV
3. A-IV, B-I, C-II, D-III
4. A-III, B-I, C-IV, D-II

Options :

61198754757. 1  
61198754758. 2  
61198754759. 3  
61198754760. 4

Question Number : 66 Question Id : 61198714055 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>Term |             | LIST-II<br>Characteristics |                                                                        |
|----------------|-------------|----------------------------|------------------------------------------------------------------------|
| A.             | Hypolimnion | I.                         | The middle layer of a lake where temperature drops rapidly with depth. |
| B.             | Epilimnion  | II.                        | Lighted photic zone of ocean.                                          |
| C.             | Metalimnion | III.                       | The warm upper layer of a lake.                                        |
| D.             | Epipelagic  | IV.                        | The cold, dense and dark bottom layer of a lake.                       |

Choose the **correct** answer from the options given below:

1. A-III, B-IV, C-I, D-II
2. A-IV, B-I, C-III, D-II
3. A-IV, B-III, C-I, D-II
4. A-II, B-III, C-I, D-IV

Options :

61198754761. 1  
61198754762. 2  
61198754763. 3  
61198754764. 4

Question Number : 66 Question Id : 61198714055 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>Term |             | LIST-II<br>Characteristics |                                                                        |
|----------------|-------------|----------------------------|------------------------------------------------------------------------|
| A.             | Hypolimnion | I.                         | The middle layer of a lake where temperature drops rapidly with depth. |
| B.             | Epilimnion  | II.                        | Lighted photic zone of ocean.                                          |
| C.             | Metalimnion | III.                       | The warm upper layer of a lake.                                        |
| D.             | Epipelagic  | IV.                        | The cold, dense and dark bottom layer of a lake.                       |

Choose the **correct** answer from the options given below:

1. A-III, B-IV, C-I, D-II
2. A-IV, B-I, C-III, D-II
3. A-IV, B-III, C-I, D-II
4. A-II, B-III, C-I, D-IV

Options :

61198754761. 1  
61198754762. 2  
61198754763. 3  
61198754764. 4

Question Number : 67 Question Id : 61198714056 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>(Ecological Concept) |                                         | LIST-II<br>(Proponents) |           |
|--------------------------------|-----------------------------------------|-------------------------|-----------|
| A.                             | Ecosystem                               | I.                      | Whittakar |
| B.                             | Ecosystem Services                      | II.                     | Myers     |
| C.                             | $\alpha$ , $\beta$ , $\gamma$ diversity | III.                    | Costanza  |
| D.                             | Hot spot of biodiversity                | IV.                     | Tansley   |

Choose the **correct** answer from the options given below:

1. A-IV, B-I, C-II, D-III
2. A-II, B-I, C-IV, D-III
3. A-II, B-IV, C-III, D-I
4. A-IV, B-III, C-I, D-II

Options :

61198754765. 1  
61198754766. 2  
61198754767. 3  
61198754768. 4

Question Number : 67 Question Id : 61198714056 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>(Ecological Concept) |                                         | LIST-II<br>(Proponents) |           |
|--------------------------------|-----------------------------------------|-------------------------|-----------|
| A.                             | Ecosystem                               | I.                      | Whittakar |
| B.                             | Ecosystem Services                      | II.                     | Myers     |
| C.                             | $\alpha$ , $\beta$ , $\gamma$ diversity | III.                    | Costanza  |
| D.                             | Hot spot of biodiversity                | IV.                     | Tansley   |

Choose the **correct** answer from the options given below:

1. A-IV, B-I, C-II, D-III
2. A-II, B-I, C-IV, D-III
3. A-II, B-IV, C-III, D-I
4. A-IV, B-III, C-I, D-II

Options :

61198754765. 1  
61198754766. 2  
61198754767. 3  
61198754768. 4

Question Number : 68 Question Id : 61198714057 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>EIA Term |                             | LIST-II<br>Related Function |                                                             |
|--------------------|-----------------------------|-----------------------------|-------------------------------------------------------------|
| A.                 | Environment Management Plan | I.                          | Identify key issues and determine boundaries of the project |
| B.                 | Impact Analysis             | II.                         | Environmental mitigation measures                           |
| C.                 | Screening                   | III.                        | Risk Assessment                                             |
| D.                 | Scoping                     | IV.                         | Initial Environmental Examination                           |

Choose the **correct** answer from the options given below:

1. A-II, B-IV, C-III, D-I
2. A-II, B-III, C-I, D-IV
3. A-II, B-III, C-IV, D-I
4. A-III, B-II, C-IV, D-I

Options :

61198754769. 1  
61198754770. 2  
61198754771. 3  
61198754772. 4

Question Number : 68 Question Id : 61198714057 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

| LIST-I<br>EIA Term |                             | LIST-II<br>Related Function |                                                             |
|--------------------|-----------------------------|-----------------------------|-------------------------------------------------------------|
| A.                 | Environment Management Plan | I.                          | Identify key issues and determine boundaries of the project |
| B.                 | Impact Analysis             | II.                         | Environmental mitigation measures                           |
| C.                 | Screening                   | III.                        | Risk Assessment                                             |
| D.                 | Scoping                     | IV.                         | Initial Environmental Examination                           |

Choose the **correct** answer from the options given below:

1. A-II, B-IV, C-III, D-I
2. A-II, B-III, C-I, D-IV
3. A-II, B-III, C-IV, D-I
4. A-III, B-II, C-IV, D-I

Options :

61198754769. 1  
61198754770. 2  
61198754771. 3  
61198754772. 4

Question Number : 69 Question Id : 61198714058 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following metamorphic rocks in order of increasing grade of metamorphism.

- A. Schist
- B. Phyllite
- C. Slate
- D. Gneiss

Choose the **correct** answer from the options given below:

1. A, B, C, D
2. B, C, D, A
3. C, B, A, D
4. D, C, B, A

Options :

61198754773. 1  
61198754774. 2  
61198754775. 3  
61198754776. 4

Question Number : 69 Question Id : 61198714058 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following metamorphic rocks in order of increasing grade of metamorphism.

- A. Schist
- B. Phyllite
- C. Slate
- D. Gneiss

Choose the **correct** answer from the options given below:

- 1. A, B, C, D
- 2. B, C, D, A
- 3. C, B, A, D
- 4. D, C, B, A

Options :

- 61198754773. 1
- 61198754774. 2
- 61198754775. 3
- 61198754776. 4

Question Number : 70 Question Id : 61198714059 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following intervals of a normally distributed variable 'X' in terms of increasing probabilities, if it is given that  $\mu = 16$ ,  $\sigma = 3$

- A.  $13 \leq X \leq 19$
- B.  $16 \leq X \leq 22$
- C.  $19 \leq X \leq 22$
- D.  $7 \leq X \leq 13$

Choose the **correct** answer from the options given below:

- 1. A, B, C, D
- 2. B, C, D, A
- 3. C, D, B, A
- 4. D, C, A, B

Options :

- 61198754777. 1
- 61198754778. 2
- 61198754779. 3
- 61198754780. 4

Question Number : 70 Question Id : 61198714059 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following intervals of a normally distributed variable 'X' in terms of increasing probabilities, if it is given that  $\mu = 16$ ,  $\sigma = 3$

- A.  $13 \leq X \leq 19$
- B.  $16 \leq X \leq 22$
- C.  $19 \leq X \leq 22$
- D.  $7 \leq X \leq 13$

Choose the **correct** answer from the options given below:

- 1. A, B, C, D
- 2. B, C, D, A
- 3. C, D, B, A
- 4. D, C, A, B

Options :

- 61198754777. 1
- 61198754778. 2
- 61198754779. 3
- 61198754780. 4

Question Number : 71 Question Id : 61198714060 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the correlation coefficients computed from the information given below in increasing order:

- A.  $\sum(x_i - \bar{x})(y_i - \bar{y}) = 16$ ,  $\sum(x_i - \bar{x})^2 = 64$ ,  $\sum(y_i - \bar{y})^2 = 25$
- B.  $\sum(x_i - \bar{x})(y_i - \bar{y}) = 20$ ,  $\sum(x_i - \bar{x})^2 = 36$ ,  $\sum(y_i - \bar{y})^2 = 49$
- C.  $\sum(x_i - \bar{x})(y_i - \bar{y}) = 18$ ,  $\sum(x_i - \bar{x})^2 = 25$ ,  $\sum(y_i - \bar{y})^2 = 64$
- D.  $\sum(x_i - \bar{x})(y_i - \bar{y}) = 24$ ,  $\sum(x_i - \bar{x})^2 = 49$ ,  $\sum(y_i - \bar{y})^2 = 64$

Choose the **correct** answer from the options given below:

- 1. A, B, C, D
- 2. A, D, C, B
- 3. B, C, D, A
- 4. B, A, D, C

Options :

- 61198754781. 1
- 61198754782. 2
- 61198754783. 3
- 61198754784. 4

Question Number : 71 Question Id : 61198714060 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the correlation coefficients computed from the information given below in increasing order:

- A.  $\sum (x_i - \bar{x})(y_i - \bar{y}) = 16, \sum (x_i - \bar{x})^2 = 64, \sum (y_i - \bar{y})^2 = 25$   
 B.  $\sum (x_i - \bar{x})(y_i - \bar{y}) = 20, \sum (x_i - \bar{x})^2 = 36, \sum (y_i - \bar{y})^2 = 49$   
 C.  $\sum (x_i - \bar{x})(y_i - \bar{y}) = 18, \sum (x_i - \bar{x})^2 = 25, \sum (y_i - \bar{y})^2 = 64$   
 D.  $\sum (x_i - \bar{x})(y_i - \bar{y}) = 24, \sum (x_i - \bar{x})^2 = 49, \sum (y_i - \bar{y})^2 = 64$

Choose the **correct** answer from the options given below:

1. A, B, C, D
2. A, D, C, B
3. B, C, D, A
4. B, A, D, C

Options :

61198754781. 1  
 61198754782. 2  
 61198754783. 3  
 61198754784. 4

Question Number : 72 Question Id : 61198714061 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following halocarbons according to their atmospheric lifetimes in ascending order.

- A.  $\text{CFCl}_3$   
 B.  $\text{CHF}_2\text{Cl}$   
 C.  $\text{CF}_2\text{ClBr}$   
 D.  $\text{C}_2\text{F}_6$

Choose the **correct** answer from the options given below:

1. B, C, D, A
2. B, C, A, D
3. A, C, B, D
4. C, A, B, D

Options :

61198754785. 1  
 61198754786. 2  
 61198754787. 3  
 61198754788. 4

Question Number : 72 Question Id : 61198714061 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following halocarbons according to their atmospheric lifetimes in ascending order.

- A.  $\text{CFCl}_3$
- B.  $\text{CHF}_2\text{Cl}$
- C.  $\text{CF}_2\text{ClBr}$
- D.  $\text{C}_2\text{F}_6$

Choose the **correct** answer from the options given below:

- 1. B, C, D, A
- 2. B, C, A, D
- 3. A, C, B, D
- 4. C, A, B, D

Options :

- 61198754785. 1
- 61198754786. 2
- 61198754787. 3
- 61198754788. 4

Question Number : 73 Question Id : 61198714062 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following layers of the atmosphere in terms of decreasing mean free paths of molecules/ions existing there.

- A. Troposphere
- B. Stratosphere
- C. Mesosphere
- D. Thermosphere

Choose the **correct** answer from the options given below:

- 1. A, B, C, D
- 2. B, C, D, A
- 3. C, D, A, B
- 4. D, C, B, A

Options :

- 61198754789. 1
- 61198754790. 2
- 61198754791. 3
- 61198754792. 4

Question Number : 73 Question Id : 61198714062 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following layers of the atmosphere in terms of decreasing mean free paths of molecules/ions existing there.

- A. Troposphere
- B. Stratosphere
- C. Mesosphere
- D. Thermosphere

Choose the **correct** answer from the options given below:

- 1. A, B, C, D
- 2. B, C, D, A
- 3. C, D, A, B
- 4. D, C, B, A

Options :

- 61198754789. 1
- 61198754790. 2
- 61198754791. 3
- 61198754792. 4

Question Number : 74 Question Id : 61198714063 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following atmospheric species in increasing order of their lifetimes in the atmosphere.

- A. CO
- B.  $\text{CH}_3\text{SCH}_3$
- C. HCHO
- D.  $\text{N}_2\text{O}$

Choose the **correct** answer from the options given below:

- 1. C, B, A, D
- 2. C, A, B, D
- 3. B, C, D, A
- 4. B, A, C, D

Options :

- 61198754793. 1
- 61198754794. 2
- 61198754795. 3
- 61198754796. 4

Question Number : 74 Question Id : 61198714063 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following atmospheric species in increasing order of their lifetimes in the atmosphere.

- A. CO
- B.  $\text{CH}_3\text{SCH}_3$
- C. HCHO
- D.  $\text{N}_2\text{O}$

Choose the **correct** answer from the options given below:

- 1. C, B, A, D
- 2. C, A, B, D
- 3. B, C, D, A
- 4. B, A, C, D

Options :

- 61198754793. 1
- 61198754794. 2
- 61198754795. 3
- 61198754796. 4

Question Number : 75 Question Id : 61198714064 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following in the correct sequence of ecological succession.

- A. Lichen
- B. Bare Rock
- C. Forest
- D. Shrubs
- E. Grasses & Sedges

Choose the **correct** answer from the options given below:

- 1. B, A, E, D, C
- 2. A, E, B, D, C
- 3. C, E, D, A, B
- 4. C, D, E, A, B

Options :

- 61198754797. 1
- 61198754798. 2
- 61198754799. 3
- 61198754800. 4

Question Number : 75 Question Id : 61198714064 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following in the correct sequence of ecological succession.

- A. Lichen
- B. Bare Rock
- C. Forest
- D. Shrubs
- E. Grasses & Sedges

Choose the **correct** answer from the options given below:

- 1. B, A, E, D, C
- 2. A, E, B, D, C
- 3. C, E, D, A, B
- 4. C, D, E, A, B

Options :

- 61198754797. 1
- 61198754798. 2
- 61198754799. 3
- 61198754800. 4

Question Number : 76 Question Id : 61198714065 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the correct hierarchy of the following (from top to bottom):

- A. Biosphere
- B. Population
- C. Community
- D. Species
- E. Ecosystem

Choose the **correct** answer from the options given below:

- 1. A, E, C, B, D
- 2. E, A, B, C, D
- 3. A, B, E, C, D
- 4. E, A, C, B, D

Options :

- 61198754801. 1
- 61198754802. 2
- 61198754803. 3
- 61198754804. 4

Question Number : 76 Question Id : 61198714065 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the correct hierarchy of the following (from top to bottom):

- A. Biosphere
- B. Population
- C. Community
- D. Species
- E. Ecosystem

Choose the **correct** answer from the options given below:

- 1. A, E, C, B, D
- 2. E, A, B, C, D
- 3. A, B, E, C, D
- 4. E, A, C, B, D

Options :

- 61198754801. 1
- 61198754802. 2
- 61198754803. 3
- 61198754804. 4

Question Number : 77 Question Id : 61198714066 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the correct sequence in EIA process out of the following:

- A. Impact evaluation
- B. Scoping
- C. Impact mitigation
- D. Impact identification
- E. Impact prediction

Choose the **correct** answer from the options given below:

- 1. B, D, E, A, C
- 2. E, D, A, C, B
- 3. D, B, C, A, E
- 4. B, A, E, D, C

Options :

- 61198754805. 1
- 61198754806. 2
- 61198754807. 3
- 61198754808. 4

Question Number : 77 Question Id : 61198714066 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the correct sequence in EIA process out of the following:

- A. Impact evaluation
- B. Scoping
- C. Impact mitigation
- D. Impact identification
- E. Impact prediction

Choose the **correct** answer from the options given below:

- 1. B, D, E, A, C
- 2. E, D, A, C, B
- 3. D, B, C, A, E
- 4. B, A, E, D, C

Options :

- 61198754805. 1
- 61198754806. 2
- 61198754807. 3
- 61198754808. 4

Question Number : 78 Question Id : 61198714067 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following metabolic stages in correct order of their occurrence in the biogasification of organic wastes:

- A. Acetogenesis
- B. Acidogenesis
- C. Hydrolysis
- D. Methanogenesis

Choose the **correct** answer from the options given below:

- 1. A, B, C, D
- 2. B, A, C, D
- 3. C, B, A, D
- 4. C, A, B, D

Options :

- 61198754809. 1
- 61198754810. 2
- 61198754811. 3
- 61198754812. 4

Question Number : 78 Question Id : 61198714067 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following metabolic stages in correct order of their occurrence in the biogasification of organic wastes:

- A. Acetogenesis
- B. Acidogenesis
- C. Hydrolysis
- D. Methanogenesis

Choose the **correct** answer from the options given below:

- 1. A, B, C, D
- 2. B, A, C, D
- 3. C, B, A, D
- 4. C, A, B, D

Options :

- 61198754809. 1
- 61198754810. 2
- 61198754811. 3
- 61198754812. 4

Question Number : 79 Question Id : 61198714068 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following minerals in correct sequence according to the continuous series of crystallization in the Bowen's reaction series.

- A. Labradorite
- B. Oligoclase
- C. Andesine
- D. Bytownite

Choose the **correct** answer from the options given below:

- 1. D, A, C, B
- 2. A, B, C, D
- 3. C, A, B, D
- 4. A, D, C, B

Options :

- 61198754813. 1
- 61198754814. 2
- 61198754815. 3
- 61198754816. 4

Question Number : 79 Question Id : 61198714068 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following minerals in correct sequence according to the continuous series of crystallization in the Bowen's reaction series.

- A. Labradorite
- B. Oligoclase
- C. Andesine
- D. Bytownite

Choose the **correct** answer from the options given below:

- 1. D, A, C, B
- 2. A, B, C, D
- 3. C, A, B, D
- 4. A, D, C, B

Options :

- 61198754813. 1
- 61198754814. 2
- 61198754815. 3
- 61198754816. 4

Question Number : 80 Question Id : 61198714069 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following layers that make up a typical oceanic crust from top to bottom.

- A. Gabbro
- B. Basaltic Pillow Lava
- C. Deep-sea sediment
- D. Sheeted dike complex

Choose the **correct** answer from the options given below:

- 1. C, D, B, A
- 2. C, A, B, D
- 3. C, B, D, A
- 4. C, D, A, B

Options :

- 61198754817. 1
- 61198754818. 2
- 61198754819. 3
- 61198754820. 4

Question Number : 80 Question Id : 61198714069 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following layers that make up a typical oceanic crust from top to bottom.

- A. Gabbro
- B. Basaltic Pillow Lava
- C. Deep-sea sediment
- D. Sheeted dike complex

Choose the **correct** answer from the options given below:

- 1. C, D, B, A
- 2. C, A, B, D
- 3. C, B, D, A
- 4. C, D, A, B

Options :

- 61198754817. 1
- 61198754818. 2
- 61198754819. 3
- 61198754820. 4

Question Number : 81 Question Id : 61198714070 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following elements in decreasing order of their relative abundance in the whole Earth (%).

- A. Iron
- B. Oxygen
- C. Silicon
- D. Magnesium
- E. Nickel

Choose the **correct** answer from the options given below:

- 1. C, B, A, D, E
- 2. A, B, C, D, E
- 3. A, E, C, B, D
- 4. B, C, D, A, E

Options :

- 61198754821. 1
- 61198754822. 2
- 61198754823. 3
- 61198754824. 4

Question Number : 81 Question Id : 61198714070 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following elements in decreasing order of their relative abundance in the whole Earth (%).

- A. Iron
- B. Oxygen
- C. Silicon
- D. Magnesium
- E. Nickel

Choose the **correct** answer from the options given below:

- 1. C, B, A, D, E
- 2. A, B, C, D, E
- 3. A, E, C, B, D
- 4. B, C, D, A, E

Options :

- 61198754821. 1
- 61198754822. 2
- 61198754823. 3
- 61198754824. 4

Question Number : 82 Question Id : 61198714071 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following countries in increasing order of their CO<sub>2</sub> emission (M Ton/year) as per current status.

- A. India
- B. China
- C. United Kingdom
- D. Russia

Choose the **correct** answer from the options given below:

- 1. C, A, D, B
- 2. C, D, A, B
- 3. D, C, A, B
- 4. C, D, B, A

Options :

- 61198754825. 1
- 61198754826. 2
- 61198754827. 3
- 61198754828. 4

Question Number : 82 Question Id : 61198714071 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following countries in increasing order of their CO<sub>2</sub> emission (M Ton/year) as per current status.

- A. India
- B. China
- C. United Kingdom
- D. Russia

Choose the **correct** answer from the options given below:

- 1. C, A, D, B
- 2. C, D, A, B
- 3. D, C, A, B
- 4. C, D, B, A

Options :

- 61198754825. 1
- 61198754826. 2
- 61198754827. 3
- 61198754828. 4

Question Number : 83 Question Id : 61198714072 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following minerals in the decreasing order of their relative hardness as per Moh's scale.

- A. Apatite
- B. Calcite
- C. Quartz
- D. Gypsum

Choose the **correct** answer from the options given below:

- 1. A, C, B, D
- 2. B, C, A, D
- 3. D, B, A, C
- 4. C, A, B, D

Options :

- 61198754829. 1
- 61198754830. 2
- 61198754831. 3
- 61198754832. 4

Question Number : 83 Question Id : 61198714072 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following minerals in the decreasing order of their relative hardness as per Moh's scale.

- A. Apatite
- B. Calcite
- C. Quartz
- D. Gypsum

Choose the **correct** answer from the options given below:

- 1. A, C, B, D
- 2. B, C, A, D
- 3. D, B, A, C
- 4. C, A, B, D

Options :

- 61198754829. 1
- 61198754830. 2
- 61198754831. 3
- 61198754832. 4

Question Number : 84 Question Id : 61198714073 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the density (numbers/m<sup>2</sup>) of organisms in terrestrial ecosystem (meadow) in increasing order.

- A. Herbaceous angiosperms
- B. Birds and mammals
- C. Bacteria and Fungi
- D. Soil arthropods, annelids and nematodes

Choose the **correct** answer from the options given below:

- 1. B, A, C, D
- 2. B, D, A, C
- 3. D, B, C, A
- 4. B, A, D, C

Options :

- 61198754833. 1
- 61198754834. 2
- 61198754835. 3
- 61198754836. 4

Question Number : 84 Question Id : 61198714073 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the density (numbers/m<sup>2</sup>) of organisms in terrestrial ecosystem (meadow) in increasing order.

- A. Herbaceous angiosperms
- B. Birds and mammals
- C. Bacteria and Fungi
- D. Soil arthropods, annelids and nematodes

Choose the **correct** answer from the options given below:

- 1. B, A, C, D
- 2. B, D, A, C
- 3. D, B, C, A
- 4. B, A, D, C

Options :

- 61198754833. 1
- 61198754834. 2
- 61198754835. 3
- 61198754836. 4

Question Number : 85 Question Id : 61198714074 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following biomass sources in increasing order of the available energy per unit mass (MJ/kg).

- A. Municipal sewage (dry)
- B. Straw (grain crops)
- C. Animal waste (dry)
- D. Wood chips, saw mill dust and forest residue

Choose the **correct** answer from the options given below:

- 1. C, B, A, D
- 2. A, C, B, D
- 3. B, A, C, D
- 4. C, A, B, D

Options :

- 61198754837. 1
- 61198754838. 2
- 61198754839. 3
- 61198754840. 4

Question Number : 85 Question Id : 61198714074 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following biomass sources in increasing order of the available energy per unit mass (MJ/kg).

- A. Municipal sewage (dry)
- B. Straw (grain crops)
- C. Animal waste (dry)
- D. Wood chips, saw mill dust and forest residue

Choose the **correct** answer from the options given below:

- 1. C, B, A, D
- 2. A, C, B, D
- 3. B, A, C, D
- 4. C, A, B, D

Options :

- 61198754837. 1
- 61198754838. 2
- 61198754839. 3
- 61198754840. 4

Question Number : 86 Question Id : 61198714075 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Mean of a standard normal variable is always \_\_\_\_\_.

- 1. equal to 1
- 2. less than 1
- 3. greater than 1
- 4. equal to zero

Options :

- 61198754841. 1
- 61198754842. 2
- 61198754843. 3
- 61198754844. 4

Question Number : 86 Question Id : 61198714075 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Mean of a standard normal variable is always \_\_\_\_\_.

- 1. equal to 1
- 2. less than 1
- 3. greater than 1
- 4. equal to zero

Options :

- 61198754841. 1
- 61198754842. 2
- 61198754843. 3
- 61198754844. 4

Question Number : 87 Question Id : 61198714076 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is desirable with reference to linear regression models?

1. homoscedasticity
2. multicollinearity
3. autocorrelation among the residuals
4. correlation between residuals and independent variables

Options :

- 61198754845. 1
- 61198754846. 2
- 61198754847. 3
- 61198754848. 4

Question Number : 87 Question Id : 61198714076 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is desirable with reference to linear regression models?

1. homoscedasticity
2. multicollinearity
3. autocorrelation among the residuals
4. correlation between residuals and independent variables

Options :

- 61198754845. 1
- 61198754846. 2
- 61198754847. 3
- 61198754848. 4

Question Number : 88 Question Id : 61198714077 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

A 25 mL sample of treated waste water requires 175 mL of distilled water to reduce the odor to a level that is just detectable. What is the threshold odor number (TON)?

1. 7.0
2. 8.0
3. 150.0
4. 200.0

Options :

- 61198754849. 1
- 61198754850. 2
- 61198754851. 3
- 61198754852. 4

Question Number : 88 Question Id : 61198714077 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

A 25 mL sample of treated waste water requires 175 mL of distilled water to reduce the odor to a level that is just detectable. What is the threshold odor number (TON)?

1. 7.0
2. 8.0
3. 150.0
4. 200.0

Options :

61198754849. 1  
61198754850. 2  
61198754851. 3  
61198754852. 4

Question Number : 89 Question Id : 61198714078 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following correctly represents the total Kjeldahl's nitrogen (TKN)?

1.  $NH_3 + NH_4^+ + NO_2^- + NO_3^-$
2.  $Organic\ N + NH_3 + NH_4^+$
3.  $NH_3 + NH_4^+$
4.  $Organic\ N + NH_3 + NH_4^+ + NO_2^- + NO_3^-$

Options :

61198754853. 1  
61198754854. 2  
61198754855. 3  
61198754856. 4

Question Number : 89 Question Id : 61198714078 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following correctly represents the total Kjeldahl's nitrogen (TKN)?

1.  $NH_3 + NH_4^+ + NO_2^- + NO_3^-$
2.  $Organic\ N + NH_3 + NH_4^+$
3.  $NH_3 + NH_4^+$
4.  $Organic\ N + NH_3 + NH_4^+ + NO_2^- + NO_3^-$

Options :

61198754853. 1  
61198754854. 2  
61198754855. 3  
61198754856. 4

Question Number : 90 Question Id : 61198714079 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the Boudouard reaction from various gas-solid reactions during biomass gasification process.

1.  $C + \frac{1}{2}O_2 \leftrightarrow CO$
2.  $C + CO_2 \leftrightarrow 2CO$
3.  $C + H_2O \leftrightarrow H_2 + CO$
4.  $C + 2H_2 \leftrightarrow CH_4$

Options :

61198754857. 1  
61198754858. 2  
61198754859. 3  
61198754860. 4

Question Number : 90 Question Id : 61198714079 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the Boudouard reaction from various gas-solid reactions during biomass gasification process.

1.  $C + \frac{1}{2}O_2 \leftrightarrow CO$
2.  $C + CO_2 \leftrightarrow 2CO$
3.  $C + H_2O \leftrightarrow H_2 + CO$
4.  $C + 2H_2 \leftrightarrow CH_4$

Options :

61198754857. 1  
61198754858. 2  
61198754859. 3  
61198754860. 4

Question Number : 91 Question Id : 61198714080 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Perfluorooctanoic acid (PFOA) is one of the persistent "Forever Chemicals (PFAS)" found in water. What is the Maximum Contaminant Level (MCL) for PFOA in drinking water as recommended by US Environmental Protection Agency (EPA).

1. 10 parts per trillion (ppt)
2. 4 parts per trillion (ppt)
3. 20 parts per trillion (ppt)
4. 50 parts per trillion (ppt)

Options :

61198754861. 1  
61198754862. 2  
61198754863. 3  
61198754864. 4

Question Number : 91 Question Id : 61198714080 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Perfluorooctanoic acid (PFOA) is one of the persistent "Forever Chemicals (PFAS)" found in water. What is the Maximum Contaminant Level (MCL) for PFOA in drinking water as recommended by US Environmental Protection Agency (EPA).

1. 10 parts per trillion (ppt)
2. 4 parts per trillion (ppt)
3. 20 parts per trillion (ppt)
4. 50 parts per trillion (ppt)

Options :

61198754861. 1  
61198754862. 2  
61198754863. 3  
61198754864. 4

Question Number : 92 Question Id : 61198714081 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following correctly represents the percentage base saturation in soils, given that CEC stands for cation exchange capacity?

1.  $\frac{Ca^{2+} + Mg^{2+} + K^{+} + Na^{+}}{CEC} \times 100$
2.  $\frac{Ca^{2+} + Mg^{2+}}{CEC} \times 100$
3.  $\frac{Ca^{2+} + Mg^{2+} - K^{+} - Na^{+}}{CEC} \times 100$
4.  $\frac{K^{+} + Na^{+} - Ca^{2+} - Mg^{2+}}{CEC} \times 100$

Options :

61198754865. 1  
61198754866. 2  
61198754867. 3  
61198754868. 4

Question Number : 92 Question Id : 61198714081 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following correctly represents the percentage base saturation in soils, given that CEC stands for cation exchange capacity?

$$1. \frac{Ca^{2+} + Mg^{2+} + K^+ + Na^+}{CEC} \times 100$$

$$2. \frac{Ca^{2+} + Mg^{2+}}{CEC} \times 100$$

$$3. \frac{Ca^{2+} + Mg^{2+} - K^+ - Na^+}{CEC} \times 100$$

$$4. \frac{K^+ + Na^+ - Ca^{2+} - Mg^{2+}}{CEC} \times 100$$

Options :

61198754865. 1

61198754866. 2

61198754867. 3

61198754868. 4

Question Number : 93 Question Id : 61198714082 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Suppose that 0.5 mg of a precipitate is lost as a result of being washed with 200 mL of wash liquid. If the precipitate weighs 500 mg, what is the relative error due to the solubility loss?

1. 0.01%

2. 0.1%

3. 0.25%

4. 25%

Options :

61198754869. 1

61198754870. 2

61198754871. 3

61198754872. 4

Question Number : 93 Question Id : 61198714082 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Suppose that 0.5 mg of a precipitate is lost as a result of being washed with 200 mL of wash liquid. If the precipitate weighs 500 mg, what is the relative error due to the solubility loss?

1. 0.01%

2. 0.1%

3. 0.25%

4. 25%

Options :

61198754869. 1

61198754870. 2

61198754871. 3

61198754872. 4

Question Number : 94 Question Id : 61198714083 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following pesticides show the highest persistence in soils due to low biodegradability?

1. Organophosphates
2. Carbamates
3. Pyrethroids
4. Organochlorines

Options :

61198754873. 1  
61198754874. 2  
61198754875. 3  
61198754876. 4

Question Number : 94 Question Id : 61198714083 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following pesticides show the highest persistence in soils due to low biodegradability?

1. Organophosphates
2. Carbamates
3. Pyrethroids
4. Organochlorines

Options :

61198754873. 1  
61198754874. 2  
61198754875. 3  
61198754876. 4

Question Number : 95 Question Id : 61198714084 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following biogeochemical cycles can be most aptly called both sedimentary and gaseous?

1. Carbon Cycle
2. Sulphur Cycle
3. Nitrogen Cycle
4. Phosphorus Cycle

Options :

61198754877. 1  
61198754878. 2  
61198754879. 3  
61198754880. 4

Question Number : 95 Question Id : 61198714084 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following biogeochemical cycles can be most aptly called both sedimentary and gaseous?

1. Carbon Cycle
2. Sulphur Cycle
3. Nitrogen Cycle
4. Phosphorus Cycle

Options :

61198754877. 1  
61198754878. 2  
61198754879. 3  
61198754880. 4

Question Number : 96 Question Id : 61198714085 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following environmental impact analysis methods uses weighted and scaled values of environmental parameters for pre and post development environment quality?

1. Leopold Matrix Method
2. Battelle Environmental Evaluation System
3. Moore Impact Matrix Method
4. Sorensen Network Analysis Method

Options :

61198754881. 1  
61198754882. 2  
61198754883. 3  
61198754884. 4

Question Number : 96 Question Id : 61198714085 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following environmental impact analysis methods uses weighted and scaled values of environmental parameters for pre and post development environment quality?

1. Leopold Matrix Method
2. Battelle Environmental Evaluation System
3. Moore Impact Matrix Method
4. Sorensen Network Analysis Method

Options :

61198754881. 1  
61198754882. 2  
61198754883. 3  
61198754884. 4

**Question Number : 97 Question Id : 61198714086 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

The value of Cation Exchange Capacity is maximum among which of the following clay minerals?

1. Kaolinite
2. Illite
3. Montmorillonite
4. Vermiculite

**Options :**

61198754885. 1  
61198754886. 2  
61198754887. 3  
61198754888. 4

**Question Number : 97 Question Id : 61198714086 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

The value of Cation Exchange Capacity is maximum among which of the following clay minerals?

1. Kaolinite
2. Illite
3. Montmorillonite
4. Vermiculite

**Options :**

61198754885. 1  
61198754886. 2  
61198754887. 3  
61198754888. 4

**Question Number : 98 Question Id : 61198714087 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

Along which of these plate boundaries interactions, one can notice the formation of accretionary prism/wedge.

1. Mid Oceanic Ridge / Oceanic Plate divergence boundary
2. Transform fault boundary
3. Continent - Continent convergence boundary
4. Ocean - Continent convergence boundary

**Options :**

61198754889. 1  
61198754890. 2  
61198754891. 3  
61198754892. 4

**Question Number : 98 Question Id : 61198714087 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

Along which of these plate boundaries interactions, one can notice the formation of accretionary prism/wedge.

1. Mid Oceanic Ridge / Oceanic Plate divergence boundary
2. Transform fault boundary
3. Continent - Continent convergence boundary
4. Ocean - Continent convergence boundary

**Options :**

61198754889. 1  
61198754890. 2  
61198754891. 3  
61198754892. 4

**Question Number : 99 Question Id : 61198714088 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

A baghouse fabric filter consists of bags that are 0.35 m in diameter and 8.0 m long. The bag house receives 11 m<sup>3</sup>/s of particulate laden air and the appropriate filtering velocity is 2.0 m/minute for a continuous cleaning operation. How many bags are there?

1. 34
2. 38
3. 40
4. 42

**Options :**

61198754893. 1  
61198754894. 2  
61198754895. 3  
61198754896. 4

**Question Number : 99 Question Id : 61198714088 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

A baghouse fabric filter consists of bags that are 0.35 m in diameter and 8.0 m long. The bag house receives 11 m<sup>3</sup>/s of particulate laden air and the appropriate filtering velocity is 2.0 m/minute for a continuous cleaning operation. How many bags are there?

1. 34
2. 38
3. 40
4. 42

**Options :**

61198754893. 1  
61198754894. 2  
61198754895. 3  
61198754896. 4

**Question Number : 100 Question Id : 61198714089 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

Consider earth as a black body at temperature of  $-18^{\circ}\text{C}$ . The wavelength of maximum emission of terrestrial radiation will be:

1.  $9.61\ \mu\text{m}$
2.  $8.12\ \mu\text{m}$
3.  $11.36\ \mu\text{m}$
4.  $9.89\ \mu\text{m}$

**Options :**

61198754897. 1  
61198754898. 2  
61198754899. 3  
61198754900. 4

**Question Number : 100 Question Id : 61198714089 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

Consider earth as a black body at temperature of  $-18^{\circ}\text{C}$ . The wavelength of maximum emission of terrestrial radiation will be:

1.  $9.61\ \mu\text{m}$
2.  $8.12\ \mu\text{m}$
3.  $11.36\ \mu\text{m}$
4.  $9.89\ \mu\text{m}$

**Options :**

61198754897. 1  
61198754898. 2  
61198754899. 3  
61198754900. 4

**Question Number : 101 Question Id : 61198714090 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

If air contains water vapor with a mixing ratio of  $6.0\ \text{gkg}^{-1}$  and the total pressure is 1025 mb, the vapor pressure is (Assume the ratio of molecular weight of water and the apparent molecular weight of dry air to be 0.6)

1. 1014.75 mb
2. 10.25 mb
3. 1.025 mb
4. 9.0 mb

**Options :**

61198754901. 1  
61198754902. 2  
61198754903. 3  
61198754904. 4

Question Number : 101 Question Id : 61198714090 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

If air contains water vapor with a mixing ratio of  $6.0 \text{ g kg}^{-1}$  and the total pressure is 1025 mb, the vapor pressure is (Assume the ratio of molecular weight of water and the apparent molecular weight of dry air to be 0.6)

1. 1014.75 mb
2. 10.25 mb
3. 1.025 mb
4. 9.0 mb

Options :

61198754901. 1  
61198754902. 2  
61198754903. 3  
61198754904. 4

Question Number : 102 Question Id : 61198714091 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

For an ideal horizontal axis wind turbine, what will be the value of power coefficient ( $C_p$ ), if the fractional wind speed decrease at the turbine is  $\frac{1}{2}$ ?

1.  $\frac{1}{2}$
2.  $\frac{1}{4}$
3.  $\frac{1}{8}$
4.  $\frac{16}{27}$

Options :

61198754905. 1  
61198754906. 2  
61198754907. 3  
61198754908. 4

Question Number : 102 Question Id : 61198714091 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

For an ideal horizontal axis wind turbine, what will be the value of power coefficient ( $C_p$ ), if the fractional wind speed decrease at the turbine is  $\frac{1}{2}$ ?

1.  $\frac{1}{2}$
2.  $\frac{1}{4}$
3.  $\frac{1}{8}$
4.  $\frac{16}{27}$

Options :

61198754905. 1  
61198754906. 2  
61198754907. 3  
61198754908. 4

Question Number : 103 Question Id : 61198714092 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

A hydropower dam has its Head = 200 m and water reservoir area  $4 \times 10^{10} \text{ m}^2$ . If the discharge rate is  $950 \text{ m}^3 \text{ s}^{-1}$ , what will be its electrical capacity?

(Take  $g = 9.8 \text{ ms}^{-2}$ )

1. 2142 MW
2. 1862 MW
3. 931 MW
4. 7458 MW

Options :

61198754909. 1  
61198754910. 2  
61198754911. 3  
61198754912. 4

Question Number : 103 Question Id : 61198714092 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

A hydropower dam has its Head = 200 m and water reservoir area  $4 \times 10^{10} \text{ m}^2$ . If the discharge rate is  $950 \text{ m}^3 \text{ s}^{-1}$ , what will be its electrical capacity?

(Take  $g = 9.8 \text{ ms}^{-2}$ )

1. 2142 MW
2. 1862 MW
3. 931 MW
4. 7458 MW

Options :

61198754909. 1  
61198754910. 2  
61198754911. 3  
61198754912. 4

Question Number : 104 Question Id : 61198714093 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

At a certain location with latitude  $\Phi = 45^\circ\text{N}$ , the horizontal gradient of sea level pressure is 5 mb per 100 km. What is the geostrophic wind speed at the location? (Assume density of air =  $1.25 \text{ kg m}^{-3}$  and angular velocity of earth =  $7.29 \times 10^{-5} \text{ rad/s}$ )

1.  $\sim 10 \text{ ms}^{-1}$
2.  $\sim 20 \text{ ms}^{-1}$
3.  $\sim 30 \text{ ms}^{-1}$
4.  $\sim 40 \text{ ms}^{-1}$

Options :

61198754913. 1  
61198754914. 2  
61198754915. 3  
61198754916. 4

**Question Number : 104 Question Id : 61198714093 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

At a certain location with latitude  $\Phi = 45^\circ\text{N}$ , the horizontal gradient of sea level pressure is 5 mb per 100 km. What is the geostrophic wind speed at the location? (Assume density of air =  $1.25 \text{ kg m}^{-3}$  and angular velocity of earth =  $7.29 \times 10^{-5} \text{ rad/s}$ )

1.  $\sim 10 \text{ ms}^{-1}$
2.  $\sim 20 \text{ ms}^{-1}$
3.  $\sim 30 \text{ ms}^{-1}$
4.  $\sim 40 \text{ ms}^{-1}$

**Options :**

61198754913. 1  
61198754914. 2  
61198754915. 3  
61198754916. 4

**Question Number : 105 Question Id : 61198714094 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

An electrostatic precipitator with  $6000 \text{ m}^2$  of collector plate area of the collection electrodes has a flow rate of the gas  $300 \text{ m}^3 \text{ s}^{-1}$ . If the drift velocity of the particles towards the collecting electrode is  $0.15 \text{ ms}^{-1}$ , what is the efficiency of collection of the electrostatic precipitator?

1. 99%
2. 98%
3. 97%
4. 95%

**Options :**

61198754917. 1  
61198754918. 2  
61198754919. 3  
61198754920. 4

**Question Number : 105 Question Id : 61198714094 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

An electrostatic precipitator with  $6000 \text{ m}^2$  of collector plate area of the collection electrodes has a flow rate of the gas  $300 \text{ m}^3 \text{ s}^{-1}$ . If the drift velocity of the particles towards the collecting electrode is  $0.15 \text{ ms}^{-1}$ , what is the efficiency of collection of the electrostatic precipitator?

1. 99%
2. 98%
3. 97%
4. 95%

**Options :**

61198754917. 1  
61198754918. 2  
61198754919. 3  
61198754920. 4

Question Number : 106 Question Id : 61198714095 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** According to Lotka-Volterra model of population growth, the prey and predator populations never reach their equilibrium values at the same time.

**Reason R:** There is a phase difference of  $2\pi$  between the prey and the predator populations.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

61198754921. 1  
61198754922. 2  
61198754923. 3  
61198754924. 4

Question Number : 106 Question Id : 61198714095 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** According to Lotka-Volterra model of population growth, the prey and predator populations never reach their equilibrium values at the same time.

**Reason R:** There is a phase difference of  $2\pi$  between the prey and the predator populations.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

61198754921. 1  
61198754922. 2  
61198754923. 3  
61198754924. 4

Question Number : 107 Question Id : 61198714096 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** According to the oxygen sag model, the dissolved oxygen concentration reaches minimum value in a stream of water, at some point downstream from the point of discharge of the waste.

**Reason R:** The rate of deoxygenation due to microbial decomposition of the waste is always greater than the rate of reaeration of the stream.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 61198754925. 1
- 61198754926. 2
- 61198754927. 3
- 61198754928. 4

Question Number : 107 Question Id : 61198714096 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** According to the oxygen sag model, the dissolved oxygen concentration reaches minimum value in a stream of water, at some point downstream from the point of discharge of the waste.

**Reason R:** The rate of deoxygenation due to microbial decomposition of the waste is always greater than the rate of reaeration of the stream.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 61198754925. 1
- 61198754926. 2
- 61198754927. 3
- 61198754928. 4

Question Number : 108 Question Id : 61198714097 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** The hydroxyl radical is one of the most important reactive species in the troposphere.

**Reason R:** It readily reacts with  $N_2$ ,  $O_2$  and  $CO_2$ .

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

- 61198754929. 1
- 61198754930. 2
- 61198754931. 3
- 61198754932. 4

Question Number : 108 Question Id : 61198714097 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** The hydroxyl radical is one of the most important reactive species in the troposphere.

**Reason R:** It readily reacts with  $N_2$ ,  $O_2$  and  $CO_2$ .

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

- 61198754929. 1
- 61198754930. 2
- 61198754931. 3
- 61198754932. 4

Question Number : 109 Question Id : 61198714098 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** DDT caused large scale mortality among fish eating birds.

**Reason R:** DDT tends to undergo bioaccumulation and biomagnification.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

61198754933. 1

61198754934. 2

61198754935. 3

61198754936. 4

Question Number : 109 Question Id : 61198714098 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** DDT caused large scale mortality among fish eating birds.

**Reason R:** DDT tends to undergo bioaccumulation and biomagnification.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

61198754933. 1

61198754934. 2

61198754935. 3

61198754936. 4

Question Number : 110 Question Id : 61198714099 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Bioremediation involves environmental modification to improve aeration and nutrients in the contaminated site, and microbial seeding using xenobiotics degrading microbes.

**Reason R:** Environmental modification boosts plant growth and microbial seeding improves overall microbial biomass in the contaminated site.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 61198754937. 1
- 61198754938. 2
- 61198754939. 3
- 61198754940. 4

Question Number : 110 Question Id : 61198714099 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Bioremediation involves environmental modification to improve aeration and nutrients in the contaminated site, and microbial seeding using xenobiotics degrading microbes.

**Reason R:** Environmental modification boosts plant growth and microbial seeding improves overall microbial biomass in the contaminated site.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 61198754937. 1
- 61198754938. 2
- 61198754939. 3
- 61198754940. 4

Question Number : 111 Question Id : 61198714100 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** The transitional zone between two or more communities has more number of species and population density at the junction.

**Reason R:** Boundaries offer opportunities for interaction through invasion, migration and inter-specific competition.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

61198754941. 1  
61198754942. 2  
61198754943. 3  
61198754944. 4

Question Number : 111 Question Id : 61198714100 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** The transitional zone between two or more communities has more number of species and population density at the junction.

**Reason R:** Boundaries offer opportunities for interaction through invasion, migration and inter-specific competition.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

61198754941. 1  
61198754942. 2  
61198754943. 3  
61198754944. 4

Question Number : 112 Question Id : 61198714101 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Dioxins and furans are chlorinated compounds that have somewhat similar chemical structures.

**Reason R:** They both consist of two benzene rings that are linked together with oxygen bridges.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

61198754945. 1  
61198754946. 2  
61198754947. 3  
61198754948. 4

Question Number : 112 Question Id : 61198714101 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Dioxins and furans are chlorinated compounds that have somewhat similar chemical structures.

**Reason R:** They both consist of two benzene rings that are linked together with oxygen bridges.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

61198754945. 1  
61198754946. 2  
61198754947. 3  
61198754948. 4

Question Number : 113 Question Id : 61198714102 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:**  $\alpha$ -quartz,  $\beta$ -quartz, tridymite and cristobalite show Polymorphism.

**Reason R:** Two substances are polymorphous if they have similar crystal structure but different chemical formulas.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

61198754949. 1  
61198754950. 2  
61198754951. 3  
61198754952. 4

Question Number : 113 Question Id : 61198714102 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:**  $\alpha$ -quartz,  $\beta$ -quartz, tridymite and cristobalite show Polymorphism.

**Reason R:** Two substances are polymorphous if they have similar crystal structure but different chemical formulas.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

61198754949. 1  
61198754950. 2  
61198754951. 3  
61198754952. 4

Question Number : 114 Question Id : 61198714103 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Orthophosphate is most available to plants at nearly neutral pH values.

**Reason R:** The orthophosphate ion is relatively more soluble than hydrogen phosphates due to its higher charge.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

- 61198754953. 1
- 61198754954. 2
- 61198754955. 3
- 61198754956. 4

Question Number : 114 Question Id : 61198714103 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Orthophosphate is most available to plants at nearly neutral pH values.

**Reason R:** The orthophosphate ion is relatively more soluble than hydrogen phosphates due to its higher charge.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

- 61198754953. 1
- 61198754954. 2
- 61198754955. 3
- 61198754956. 4

Question Number : 115 Question Id : 61198714104 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** An aquiclude supports a perched watertable above the main watertable.

**Reason R:** Aquicludes are relatively impermeable beds that hinder water movement.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

61198754957. 1

61198754958. 2

61198754959. 3

61198754960. 4

Question Number : 115 Question Id : 61198714104 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** An aquiclude supports a perched watertable above the main watertable.

**Reason R:** Aquicludes are relatively impermeable beds that hinder water movement.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

61198754957. 1

61198754958. 2

61198754959. 3

61198754960. 4

Question Number : 116 Question Id : 61198714105 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** The magnitude of saturated adiabatic lapse rate is always less than that of the dry adiabatic lapse rate.

**Reason R:** The rate of change of saturation mixing ratio with temperature is always negative.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

- 61198754961. 1
- 61198754962. 2
- 61198754963. 3
- 61198754964. 4

Question Number : 116 Question Id : 61198714105 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** The magnitude of saturated adiabatic lapse rate is always less than that of the dry adiabatic lapse rate.

**Reason R:** The rate of change of saturation mixing ratio with temperature is always negative.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

- 61198754961. 1
- 61198754962. 2
- 61198754963. 3
- 61198754964. 4

Question Number : 117 Question Id : 61198714106 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Gallium Arsenide (GaAs) is an attractive Photo-Voltaic (PV) cell material.

**Reason R:** GaAs has a direct band gap of 2.43 eV.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

61198754965. 1

61198754966. 2

61198754967. 3

61198754968. 4

Question Number : 117 Question Id : 61198714106 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Gallium Arsenide (GaAs) is an attractive Photo-Voltaic (PV) cell material.

**Reason R:** GaAs has a direct band gap of 2.43 eV.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

61198754965. 1

61198754966. 2

61198754967. 3

61198754968. 4

Question Number : 118 Question Id : 61198714107 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** In contrast to a fission reactor, a fusion reactor can not melt down.

**Reason R:** If anything goes wrong, the plasma will collapse and fusion will stop.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

61198754969. 1

61198754970. 2

61198754971. 3

61198754972. 4

Question Number : 118 Question Id : 61198714107 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** In contrast to a fission reactor, a fusion reactor can not melt down.

**Reason R:** If anything goes wrong, the plasma will collapse and fusion will stop.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

61198754969. 1

61198754970. 2

61198754971. 3

61198754972. 4

Question Number : 119 Question Id : 61198714108 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** In composting of municipal solid waste, thermophilic microbes initiate the process.

**Reason R:** High temperature is required to kill the pathogens.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

61198754973. 1

61198754974. 2

61198754975. 3

61198754976. 4

Question Number : 119 Question Id : 61198714108 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** In composting of municipal solid waste, thermophilic microbes initiate the process.

**Reason R:** High temperature is required to kill the pathogens.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

61198754973. 1

61198754974. 2

61198754975. 3

61198754976. 4

Question Number : 120 Question Id : 61198714109 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Attenuation of anionic species in soil is less than that of cationic species.

**Reason R:** Soil surfaces lack anion exchanging sites.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

61198754977. 1

61198754978. 2

61198754979. 3

61198754980. 4

Question Number : 120 Question Id : 61198714109 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Attenuation of anionic species in soil is less than that of cationic species.

**Reason R:** Soil surfaces lack anion exchanging sites.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

61198754977. 1

61198754978. 2

61198754979. 3

61198754980. 4

Question Number : 121 Question Id : 61198714110 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Cloudy nights in the monsoon season favour the formation of urban heat island.

**Reason R:** Water vapours absorb strongly in the long wave region.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

61198754981. 1

61198754982. 2

61198754983. 3

61198754984. 4

Question Number : 121 Question Id : 61198714110 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Cloudy nights in the monsoon season favour the formation of urban heat island.

**Reason R:** Water vapours absorb strongly in the long wave region.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

61198754981. 1

61198754982. 2

61198754983. 3

61198754984. 4

Question Number : 122 Question Id : 61198714111 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** The turn over rate of marine autotrophs is faster than that of terrestrial autotrophs.

**Reason R:** Terrestrial autotrophs contribute less to the structural matrix of the ecosystem as compared to marine autotrophs.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

- 61198754985. 1
- 61198754986. 2
- 61198754987. 3
- 61198754988. 4

Question Number : 122 Question Id : 61198714111 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** The turn over rate of marine autotrophs is faster than that of terrestrial autotrophs.

**Reason R:** Terrestrial autotrophs contribute less to the structural matrix of the ecosystem as compared to marine autotrophs.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

- 61198754985. 1
- 61198754986. 2
- 61198754987. 3
- 61198754988. 4

Question Number : 123 Question Id : 61198714112 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Pollutants can be detected and quantified using biosensors.

**Reason R:** On interaction of specific biomolecules with chemicals, transducers release readable signals.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

61198754989. 1

61198754990. 2

61198754991. 3

61198754992. 4

Question Number : 123 Question Id : 61198714112 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Pollutants can be detected and quantified using biosensors.

**Reason R:** On interaction of specific biomolecules with chemicals, transducers release readable signals.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

61198754989. 1

61198754990. 2

61198754991. 3

61198754992. 4

Question Number : 124 Question Id : 61198714113 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the measures of variability in a dataset.

- A. Percentiles
- B. Quartiles
- C. Range
- D. Interquartile Range
- E. Mean Deviation

Choose the **correct** answer from the options given below:

1. A, B, C only
2. B, C, D only
3. C, D, E only
4. B, C, D, E only

Options :

61198754993. 1

61198754994. 2

61198754995. 3

61198754996. 4

Question Number : 124 Question Id : 61198714113 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the measures of variability in a dataset.

- A. Percentiles
- B. Quartiles
- C. Range
- D. Interquartile Range
- E. Mean Deviation

Choose the **correct** answer from the options given below:

1. A, B, C only
2. B, C, D only
3. C, D, E only
4. B, C, D, E only

Options :

61198754993. 1

61198754994. 2

61198754995. 3

61198754996. 4

Question Number : 125 Question Id : 61198714114 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the continuous probability distributions among the following:

- A. Binomial
- B. Uniform
- C. Hypergeometric
- D. Normal

Choose the **correct** answer from the options given below:

1. A, B and C only
2. B, C and D only
3. B and D only
4. D only

Options :

- 61198754997. 1
- 61198754998. 2
- 61198754999. 3
- 61198755000. 4

Question Number : 125 Question Id : 61198714114 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the continuous probability distributions among the following:

- A. Binomial
- B. Uniform
- C. Hypergeometric
- D. Normal

Choose the **correct** answer from the options given below:

1. A, B and C only
2. B, C and D only
3. B and D only
4. D only

Options :

- 61198754997. 1
- 61198754998. 2
- 61198754999. 3
- 61198755000. 4

Question Number : 126 Question Id : 61198714115 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the active species of chlorine in the lower polar stratosphere.

- A. HCl
- B. Cl
- C. ClONO<sub>2</sub>
- D. ClO

Choose the **correct** answer from the options given below:

1. A and B only
2. C and D only
3. B and D only
4. A and C only

Options :

- 61198755001. 1
- 61198755002. 2
- 61198755003. 3
- 61198755004. 4

Question Number : 126 Question Id : 61198714115 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the active species of chlorine in the lower polar stratosphere.

- A. HCl
- B. Cl
- C. ClONO<sub>2</sub>
- D. ClO

Choose the **correct** answer from the options given below:

1. A and B only
2. C and D only
3. B and D only
4. A and C only

Options :

- 61198755001. 1
- 61198755002. 2
- 61198755003. 3
- 61198755004. 4

Question Number : 127 Question Id : 61198714116 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

The rate of formation of disinfection byproducts (DBPs) during water treatment is dependent on:

- A. Presence of organic precursors
- B. Free chlorine concentration
- C. Bromide concentration
- D. pH
- E. Temperature

Choose the **correct** answer from the options given below:

- 1. B and C only
- 2. A, D and E only
- 3. A, B, D and E only
- 4. A, B, C, D, E

Options :

- 61198755005. 1
- 61198755006. 2
- 61198755007. 3
- 61198755008. 4

Question Number : 127 Question Id : 61198714116 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

The rate of formation of disinfection byproducts (DBPs) during water treatment is dependent on:

- A. Presence of organic precursors
- B. Free chlorine concentration
- C. Bromide concentration
- D. pH
- E. Temperature

Choose the **correct** answer from the options given below:

- 1. B and C only
- 2. A, D and E only
- 3. A, B, D and E only
- 4. A, B, C, D, E

Options :

- 61198755005. 1
- 61198755006. 2
- 61198755007. 3
- 61198755008. 4

Question Number : 128 Question Id : 61198714117 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the waste incinerator(s) commonly categorized according to combustion chamber:

- A. Rotary kiln
- B. Moving grate
- C. Fixed-hearth
- D. Fluidized-bed

Choose the **correct** answer from the options given below:

1. A only
2. B only
3. A, C and D only
4. A, B, C and D

Options :

61198755009. 1

61198755010. 2

61198755011. 3

61198755012. 4

Question Number : 128 Question Id : 61198714117 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the waste incinerator(s) commonly categorized according to combustion chamber:

- A. Rotary kiln
- B. Moving grate
- C. Fixed-hearth
- D. Fluidized-bed

Choose the **correct** answer from the options given below:

1. A only
2. B only
3. A, C and D only
4. A, B, C and D

Options :

61198755009. 1

61198755010. 2

61198755011. 3

61198755012. 4

Question Number : 129 Question Id : 61198714118 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Soil-water in equilibrium with  $\text{CO}_2$  in soil-air has pH-values often below 5.0. This acidity arises mainly from the following sources:

- A. Organic acid produced during degradation of organic matter
- B. Release of  $\text{H}^+$  by plants in exchange for nutritive base cations
- C. Sulphide oxidation
- D. Nitrification processes, where  $\text{NH}_4^+$  is converted into  $\text{NO}_3^-$

Choose the **correct** answer from the options given below:

- 1. A only
- 2. C only
- 3. A and B only
- 4. A, B, C and D

Options :

- 61198755013. 1
- 61198755014. 2
- 61198755015. 3
- 61198755016. 4

Question Number : 129 Question Id : 61198714118 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Soil-water in equilibrium with  $\text{CO}_2$  in soil-air has pH-values often below 5.0. This acidity arises mainly from the following sources:

- A. Organic acid produced during degradation of organic matter
- B. Release of  $\text{H}^+$  by plants in exchange for nutritive base cations
- C. Sulphide oxidation
- D. Nitrification processes, where  $\text{NH}_4^+$  is converted into  $\text{NO}_3^-$

Choose the **correct** answer from the options given below:

- 1. A only
- 2. C only
- 3. A and B only
- 4. A, B, C and D

Options :

- 61198755013. 1
- 61198755014. 2
- 61198755015. 3
- 61198755016. 4

Question Number : 130 Question Id : 61198714119 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following detectors are best suited for HPLC?

- A. Mass spectrometer (MS)
- B. Thermal Conductivity
- C. Absorbance
- D. Flame ionization

Choose the **correct** answer from the options given below:

- 1. A only
- 2. B and C only
- 3. A and C only
- 4. A, B, C and D

Options :

- 61198755017. 1
- 61198755018. 2
- 61198755019. 3
- 61198755020. 4

Question Number : 130 Question Id : 61198714119 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following detectors are best suited for HPLC?

- A. Mass spectrometer (MS)
- B. Thermal Conductivity
- C. Absorbance
- D. Flame ionization

Choose the **correct** answer from the options given below:

- 1. A only
- 2. B and C only
- 3. A and C only
- 4. A, B, C and D

Options :

- 61198755017. 1
- 61198755018. 2
- 61198755019. 3
- 61198755020. 4

Question Number : 131 Question Id : 61198714120 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is/are true regarding the ideal detector for gas chromatography?

- A. Good stability and reproducibility.
- B. A linear response to solutes that extends over several orders of magnitude.
- C. A temperature range from room temperature to at least 400°C.
- D. A short response time that is independent of flow rate.

Choose the **correct** answer from the options given below:

- 1. A only
- 2. B and C only
- 3. A, B and D only
- 4. A, B, C and D

Options :

61198755021. 1

61198755022. 2

61198755023. 3

61198755024. 4

Question Number : 131 Question Id : 61198714120 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is/are true regarding the ideal detector for gas chromatography?

- A. Good stability and reproducibility.
- B. A linear response to solutes that extends over several orders of magnitude.
- C. A temperature range from room temperature to at least 400°C.
- D. A short response time that is independent of flow rate.

Choose the **correct** answer from the options given below:

- 1. A only
- 2. B and C only
- 3. A, B and D only
- 4. A, B, C and D

Options :

61198755021. 1

61198755022. 2

61198755023. 3

61198755024. 4

Question Number : 132 Question Id : 61198714121 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the correct statements about biofuels.

- A. Transesterification is involved in production of biodiesel.
- B. Biogas is produced from organic wastes using aerobic bacteria.
- C. Biohydrogen can be produced using hydrogenase by microalgae.
- D. Bioethanol with high octane rating is produced using wood chips.
- E. Photoautotrophic bacteria are used for bioethanol production.

Choose the **correct** answer from the options given below:

- 1. A, C and D only
- 2. B, C and E only
- 3. A, C and E only
- 4. A, B and C only

Options :

- 61198755025. 1
- 61198755026. 2
- 61198755027. 3
- 61198755028. 4

Question Number : 132 Question Id : 61198714121 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the correct statements about biofuels.

- A. Transesterification is involved in production of biodiesel.
- B. Biogas is produced from organic wastes using aerobic bacteria.
- C. Biohydrogen can be produced using hydrogenase by microalgae.
- D. Bioethanol with high octane rating is produced using wood chips.
- E. Photoautotrophic bacteria are used for bioethanol production.

Choose the **correct** answer from the options given below:

- 1. A, C and D only
- 2. B, C and E only
- 3. A, C and E only
- 4. A, B and C only

Options :

- 61198755025. 1
- 61198755026. 2
- 61198755027. 3
- 61198755028. 4

Question Number : 133 Question Id : 61198714122 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the correct statements:

- A. Wetland ecosystems store and purify water.
- B. Coral reefs, rich in calcareous materials, have very low productivity.
- C. Chaparral ecosystems show excellent resilience stability.
- D. Arctic ecosystems have small food chains.
- E. Nutrient deficient estuarine ecosystems have low species diversity.

Choose the **correct** answer from the options given below:

- 1. B, C and E only
- 2. A, B and C only
- 3. A, C and D only
- 4. A, B, C and D only

Options :

- 61198755029. 1
- 61198755030. 2
- 61198755031. 3
- 61198755032. 4

Question Number : 133 Question Id : 61198714122 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the correct statements:

- A. Wetland ecosystems store and purify water.
- B. Coral reefs, rich in calcareous materials, have very low productivity.
- C. Chaparral ecosystems show excellent resilience stability.
- D. Arctic ecosystems have small food chains.
- E. Nutrient deficient estuarine ecosystems have low species diversity.

Choose the **correct** answer from the options given below:

- 1. B, C and E only
- 2. A, B and C only
- 3. A, C and D only
- 4. A, B, C and D only

Options :

- 61198755029. 1
- 61198755030. 2
- 61198755031. 3
- 61198755032. 4

Question Number : 134 Question Id : 61198714123 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the correct statements:

- A. Energy available at each successive trophic level always decreases.
- B. Nutrient cycles in a tropical rain forest are closed systems.
- C. The P/R ratio in a climax community is always greater than 1.
- D. Ecosystem services include regulatory, provisioning and supporting services, but not cultural services.
- E. r-species are opportunists while k-species are competitors.

Choose the **correct** answer from the options given below:

- 1. A, B, C and D only
- 2. A, C and E only
- 3. A, B and E only
- 4. A, C, D and E only

Options :

- 61198755033. 1
- 61198755034. 2
- 61198755035. 3
- 61198755036. 4

Question Number : 134 Question Id : 61198714123 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the correct statements:

- A. Energy available at each successive trophic level always decreases.
- B. Nutrient cycles in a tropical rain forest are closed systems.
- C. The P/R ratio in a climax community is always greater than 1.
- D. Ecosystem services include regulatory, provisioning and supporting services, but not cultural services.
- E. r-species are opportunists while k-species are competitors.

Choose the **correct** answer from the options given below:

- 1. A, B, C and D only
- 2. A, C and E only
- 3. A, B and E only
- 4. A, C, D and E only

Options :

- 61198755033. 1
- 61198755034. 2
- 61198755035. 3
- 61198755036. 4

Question Number : 135 Question Id : 61198714124 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

As per EIA notification (2006); which of the following statement(s) is (are) correct?

- A. A-category projects require prior environment clearance from Central Government.
- B. National defense and security projects have mandatory requirement for public consultation.
- C. B<sub>1</sub> category projects do not require environmental clearance.
- D. EAC and SEAC are the regulatory authorities to grant or reject environment clearance.

Choose the **correct** answer from the options given below:

- 1. A, C and D only
- 2. A and B only
- 3. A and C only
- 4. A only

Options :

- 61198755037. 1
- 61198755038. 2
- 61198755039. 3
- 61198755040. 4

Question Number : 135 Question Id : 61198714124 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

As per EIA notification (2006); which of the following statement(s) is (are) correct?

- A. A-category projects require prior environment clearance from Central Government.
- B. National defense and security projects have mandatory requirement for public consultation.
- C. B<sub>1</sub> category projects do not require environmental clearance.
- D. EAC and SEAC are the regulatory authorities to grant or reject environment clearance.

Choose the **correct** answer from the options given below:

- 1. A, C and D only
- 2. A and B only
- 3. A and C only
- 4. A only

Options :

- 61198755037. 1
- 61198755038. 2
- 61198755039. 3
- 61198755040. 4

Question Number : 136 Question Id : 61198714125 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the correct statement about plastic recycling:

- A. PET type plastics are significantly recycled worldwide.
- B. Polystyrene cups, bottles and plates have a high recycling rate.
- C. Thermoset plastics are readily recycled.
- D. Plastics can absorb materials like oils and pesticides that can stay in recycled plastic.

Choose the **correct** answer from the options given below:

- 1. A and D only
- 2. B and C only
- 3. A and C only
- 4. C and D only

Options :

- 61198755041. 1
- 61198755042. 2
- 61198755043. 3
- 61198755044. 4

Question Number : 136 Question Id : 61198714125 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the correct statement about plastic recycling:

- A. PET type plastics are significantly recycled worldwide.
- B. Polystyrene cups, bottles and plates have a high recycling rate.
- C. Thermoset plastics are readily recycled.
- D. Plastics can absorb materials like oils and pesticides that can stay in recycled plastic.

Choose the **correct** answer from the options given below:

- 1. A and D only
- 2. B and C only
- 3. A and C only
- 4. C and D only

Options :

- 61198755041. 1
- 61198755042. 2
- 61198755043. 3
- 61198755044. 4

Question Number : 137 Question Id : 61198714126 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Darcy's law is applicable in which of the following conditions:

- A. The flow of liquid is steady
- B. Soil is unsaturated
- C. Flow through soil is turbulent
- D. Relation between flow rate and hydraulic gradient is linear

Choose the **correct** answer from the options given below:

- 1. A and C only
- 2. A, B and D only
- 3. B, C and D only
- 4. A and D only

Options :

- 61198755045. 1
- 61198755046. 2
- 61198755047. 3
- 61198755048. 4

Question Number : 137 Question Id : 61198714126 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Darcy's law is applicable in which of the following conditions:

- A. The flow of liquid is steady
- B. Soil is unsaturated
- C. Flow through soil is turbulent
- D. Relation between flow rate and hydraulic gradient is linear

Choose the **correct** answer from the options given below:

- 1. A and C only
- 2. A, B and D only
- 3. B, C and D only
- 4. A and D only

Options :

- 61198755045. 1
- 61198755046. 2
- 61198755047. 3
- 61198755048. 4

Question Number : 138 Question Id : 61198714127 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Environment Protection (End-of-Life Vehicles) Rules 2025 shall apply to:

- A. Waste Batteries covered under the Battery Waste Management Rules, 2022.
- B. E-waste as covered under E-waste (Management) Rules, 2022.
- C. Registered owners of vehicles.
- D. Plastic packaging as covered under the Plastic Waste Management Rules, 2016.
- E. Registered vehicle scrapping facility.

Choose the **correct** answer from the options given below:

- 1. A and B only
- 2. A, B and D only
- 3. C and E only
- 4. A, C and E only

Options :

- 61198755049. 1
- 61198755050. 2
- 61198755051. 3
- 61198755052. 4

Question Number : 138 Question Id : 61198714127 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Environment Protection (End-of-Life Vehicles) Rules 2025 shall apply to:

- A. Waste Batteries covered under the Battery Waste Management Rules, 2022.
- B. E-waste as covered under E-waste (Management) Rules, 2022.
- C. Registered owners of vehicles.
- D. Plastic packaging as covered under the Plastic Waste Management Rules, 2016.
- E. Registered vehicle scrapping facility.

Choose the **correct** answer from the options given below:

- 1. A and B only
- 2. A, B and D only
- 3. C and E only
- 4. A, C and E only

Options :

- 61198755049. 1
- 61198755050. 2
- 61198755051. 3
- 61198755052. 4

Question Number : 139 Question Id : 61198714128 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

The major advantages of Ocean Thermal Energy Conversion (OTEC) are:

- A. High efficiency
- B. Steady power without fluctuations and independent of vagaries of weather
- C. Low installation cost
- D. Creation of some useful by-products such as desalinated water

Choose the **correct** answer from the options given below:

- 1. A, B and D only
- 2. B, C and D only
- 3. B and D only
- 4. A, B, C and D

Options :

61198755053. 1

61198755054. 2

61198755055. 3

61198755056. 4

Question Number : 139 Question Id : 61198714128 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

The major advantages of Ocean Thermal Energy Conversion (OTEC) are:

- A. High efficiency
- B. Steady power without fluctuations and independent of vagaries of weather
- C. Low installation cost
- D. Creation of some useful by-products such as desalinated water

Choose the **correct** answer from the options given below:

- 1. A, B and D only
- 2. B, C and D only
- 3. B and D only
- 4. A, B, C and D

Options :

61198755053. 1

61198755054. 2

61198755055. 3

61198755056. 4

Question Number : 140 Question Id : 61198714129 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is/are main limitations of tidal energy?

- A. Economic recovery of energy from tides is site specific.
- B. Tidal plants disrupt marine life and ecology at the site (location).
- C. Changing tidal range produces changing power.
- D. The turbines are required to operate at variable head.

Choose the **correct** answer from the options given below:

- 1. B only
- 2. B, C and D only
- 3. A, B and D only
- 4. A, B, C and D

Options :

61198755057. 1

61198755058. 2

61198755059. 3

61198755060. 4

Question Number : 140 Question Id : 61198714129 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is/are main limitations of tidal energy?

- A. Economic recovery of energy from tides is site specific.
- B. Tidal plants disrupt marine life and ecology at the site (location).
- C. Changing tidal range produces changing power.
- D. The turbines are required to operate at variable head.

Choose the **correct** answer from the options given below:

- 1. B only
- 2. B, C and D only
- 3. A, B and D only
- 4. A, B, C and D

Options :

61198755057. 1

61198755058. 2

61198755059. 3

61198755060. 4

Sub-Section Number :

2

Sub-Section Id :

611987549

Question Shuffling Allowed :

No

Is Section Default? :

No

**Question Id : 61198714130 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix**

**Question Numbers : (141 to 145)**

**Question Label : Comprehension**

**Read the passage given below and answer questions:**

The inhospitable conditions of early Earth, characterized by a molten surface under intense bombardment by asteroids and other objects from space, persisted for up to 500 million years. The intense heat and the absence of liquid water indicate that early Earth was completely devoid of life. Furthermore, the early Earth was anoxic, and the absence of O<sub>2</sub> means that Earth lacked an ozone layer, allowing intense ultraviolet light to sterilize its surface. Water on Earth originated from volcanic outgassing of the planet's interior and from innumerable collisions with icy comets and asteroids. Given Earth's heat at the time, this water would have been present only as water vapor. However, ancient crystals of the mineral zircon (ZrSiO<sub>4</sub>) have been discovered that were formed on the early Earth, and these materials have given us a glimpse of conditions on Earth prior to the origin of life. Analyses of ancient zircon crystals, including impurities trapped in these crystals and their oxygen isotope ratios, provide evidence for a solid crust and liquid water on Earth as early as 4.3 bya. Additional evidence of water comes from ancient sedimentary rocks, since sedimentary rocks are only formed under water. Among the oldest surviving sedimentary rocks are those found in southwestern Greenland, dating to 3.86 bya. These ancient rocks indicate the presence of early oceans.

**Sub questions**

**Question Number : 141 Question Id : 61198714131 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

Based on the information given in the passage, what could be the most probable age of earth?

1. ~ 4.8 billion years
2. ~ 4.3 billion years
3. ~ 3.86 billion years
4. ~ 500 million years

**Options :**

61198755061. 1  
61198755062. 2  
61198755063. 3  
61198755064. 4

**Question Number : 142 Question Id : 61198714132 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

Which of the following is NOT correct about the early phase (first 200-400 million years) after Earth's formation?

1. There was no life on earth.
2. There were anoxic conditions on earth.
3. Earth had ozone layer.
4. There was no liquid water.

**Options :**

61198755065. 1  
61198755066. 2  
61198755067. 3  
61198755068. 4

**Question Number : 143 Question Id : 61198714133 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

Which of the following is NOT a source of water in the early phase (first 200-400 million years) after Earth's formation?

1. Volcanic outgassing
2. Collisions with icy comets
3. Early oceans
4. Collisions with icy asteroids

**Options :**

61198755069. 1  
 61198755070. 2  
 61198755071. 3  
 61198755072. 4

**Question Number : 144 Question Id : 61198714134 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

According to the passage, the evidence for the existence of early oceans pertains to which of the following periods?

1.  $\sim 4.8 \times 10^9$  years ago
2.  $\sim 3.86 \times 10^9$  years ago
3.  $\sim 5 \times 10^8$  years ago
4.  $\sim 4.3 \times 10^8$  years ago

**Options :**

61198755073. 1  
 61198755074. 2  
 61198755075. 3  
 61198755076. 4

**Question Number : 145 Question Id : 61198714135 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

The earliest evidence of liquid water on earth comes from

1. Sedimentary rocks found in southwestern Greenland
2. Icy comets
3. Analysis of ancient zircon crystals
4. Presence of early oceans

**Options :**

61198755077. 1  
 61198755078. 2  
 61198755079. 3  
 61198755080. 4

Question Id : 61198714130 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group

Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (141 to 145)

Question Label : Comprehension

**Read the passage given below and answer questions:**

The inhospitable conditions of early Earth, characterized by a molten surface under intense bombardment by asteroids and other objects from space, persisted for up to 500 million years. The intense heat and the absence of liquid water indicate that early Earth was completely devoid of life. Furthermore, the early Earth was anoxic, and the absence of O<sub>2</sub> means that Earth lacked an ozone layer, allowing intense ultraviolet light to sterilize its surface. Water on Earth originated from volcanic outgassing of the planet's interior and from innumerable collisions with icy comets and asteroids. Given Earth's heat at the time, this water would have been present only as water vapor. However, ancient crystals of the mineral zircon (ZrSiO<sub>4</sub>) have been discovered that were formed on the early Earth, and these materials have given us a glimpse of conditions on Earth prior to the origin of life. Analyses of ancient zircon crystals, including impurities trapped in these crystals and their oxygen isotope ratios, provide evidence for a solid crust and liquid water on Earth as early as 4.3 bya. Additional evidence of water comes from ancient sedimentary rocks, since sedimentary rocks are only formed under water. Among the oldest surviving sedimentary rocks are those found in southwestern Greenland, dating to 3.86 bya. These ancient rocks indicate the presence of early oceans.

**Sub questions**

Question Number : 141 Question Id : 61198714131 Question Type : MCQ Option Shuffling : No Display Question

Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Based on the information given in the passage, what could be the most probable age of earth?

1. ~ 4.8 billion years
2. ~ 4.3 billion years
3. ~ 3.86 billion years
4. ~ 500 million years

**Options :**

61198755061. 1  
61198755062. 2  
61198755063. 3  
61198755064. 4

Question Number : 142 Question Id : 61198714132 Question Type : MCQ Option Shuffling : No Display Question

Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is NOT correct about the early phase (first 200-400 million years) after Earth's formation?

1. There was no life on earth.
2. There were anoxic conditions on earth.
3. Earth had ozone layer.
4. There was no liquid water.

**Options :**

61198755065. 1  
61198755066. 2  
61198755067. 3  
61198755068. 4

Question Number : 143 Question Id : 61198714133 Question Type : MCQ Option Shuffling : No Display Question

Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is NOT a source of water in the early phase (first 200-400 million years) after Earth's formation?

1. Volcanic outgassing
2. Collisions with icy comets
3. Early oceans
4. Collisions with icy asteroids

**Options :**

61198755069. 1  
61198755070. 2  
61198755071. 3  
61198755072. 4

**Question Number : 144 Question Id : 61198714134 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

According to the passage, the evidence for the existence of early oceans pertains to which of the following periods?

1.  $\sim 4.8 \times 10^9$  years ago
2.  $\sim 3.86 \times 10^9$  years ago
3.  $\sim 5 \times 10^8$  years ago
4.  $\sim 4.3 \times 10^8$  years ago

**Options :**

61198755073. 1  
61198755074. 2  
61198755075. 3  
61198755076. 4

**Question Number : 145 Question Id : 61198714135 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

The earliest evidence of liquid water on earth comes from

1. Sedimentary rocks found in southwestern Greenland
2. Icy comets
3. Analysis of ancient zircon crystals
4. Presence of early oceans

**Options :**

61198755077. 1  
61198755078. 2  
61198755079. 3  
61198755080. 4

**Sub-Section Number :**

3

**Sub-Section Id :**

611987550

**Question Shuffling Allowed :**

No

**Is Section Default? :**

No

Question Id : 61198714136 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group

Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (146 to 150)

Question Label : Comprehension

**Read the passage given below and answer questions:**

The earliest mass extinction occurred approximately 443 million years ago, near the end of the Ordovician period. Although not much is known about the cause of this extinction, it may have been related to global cooling. Approximately 100 families and their associated species became extinct during this period. The next mass extinction occurred 90 million years later near the end of the Devonian. That extinction was responsible for the death of about 70 percent of all (marine) invertebrate species and was also probably related to climate change and global cooling. The third mass extinction occurred near the end of the Permian— about 245 million years ago— when 95 percent of all marine species died. It is believed that this mass extinction possible spanned a period of about 7 million years. It is thought that global cooling, followed by rapid global warming with large variations in climate, may have been responsible. There was also significant volcanic activity during this time, and the tremendous amount of volcanic ash and gases in the atmosphere probably contributed to the cooling. At the end of the Cretaceous period, another tremendous mass extinction event occurred. This event was sudden, and there is abundant evidence to suggest that it was caused by the impact of a giant asteroid. Another mass extinction occurred near the end of the Eocene about 35 million years ago.

**Sub questions**

Question Number : 146 Question Id : 61198714137 Question Type : MCQ Option Shuffling : No Display Question

Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

End of the Devonian period corresponds most likely to the period

1. ~ 90 million years ago
2. ~ 353 million years ago
3. ~ 245 million years ago
4. ~ 533 million years ago

**Options :**

- 61198755081. 1
- 61198755082. 2
- 61198755083. 3
- 61198755084. 4

Question Number : 147 Question Id : 61198714138 Question Type : MCQ Option Shuffling : No Display Question

Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Among the mass extinctions mentioned in the passage, the most devastating loss of marine life occurred near the end of

1. Ordovician
2. Devonian
3. Permian
4. Eocene

**Options :**

- 61198755085. 1
- 61198755086. 2
- 61198755087. 3
- 61198755088. 4

Question Number : 148 Question Id : 61198714139 Question Type : MCQ Option Shuffling : No Display Question

Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Mass extinction at the end of Cretaceous period was likely caused by

1. Global warming
2. Global cooling
3. Global cooling followed by global warming
4. Impact of giant asteroid

**Options :**

61198755089. 1  
61198755090. 2  
61198755091. 3  
61198755092. 4

**Question Number : 149 Question Id : 61198714140 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

Global cooling followed by rapid global warming accompanied with large variations in climate was the most likely cause of mass extinctions pertaining to which period?

1. At the end of the Cretaceous period
2. Near the end of the Devonian
3. Near the end of the Permian
4. Near the end of the Ordovician

**Options :**

61198755093. 1  
61198755094. 2  
61198755095. 3  
61198755096. 4

**Question Number : 150 Question Id : 61198714141 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

Global cooling has been associated with mass extinctions that occurred near the end of \_\_\_\_\_.

1. Ordovician, Cretaceous and Permian
2. Ordovician, Eocene and Permian
3. Ordovician, Cretaceous and Devonian
4. Ordovician, Devonian and Permian

**Options :**

61198755097. 1  
61198755098. 2  
61198755099. 3  
61198755100. 4

Question Id : 61198714136 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group

Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (146 to 150)

Question Label : Comprehension

**Read the passage given below and answer questions:**

The earliest mass extinction occurred approximately 443 million years ago, near the end of the Ordovician period. Although not much is known about the cause of this extinction, it may have been related to global cooling. Approximately 100 families and their associated species became extinct during this period. The next mass extinction occurred 90 million years later near the end of the Devonian. That extinction was responsible for the death of about 70 percent of all (marine) invertebrate species and was also probably related to climate change and global cooling. The third mass extinction occurred near the end of the Permian— about 245 million years ago— when 95 percent of all marine species died. It is believed that this mass extinction possible spanned a period of about 7 million years. It is thought that global cooling, followed by rapid global warming with large variations in climate, may have been responsible. There was also significant volcanic activity during this time, and the tremendous amount of volcanic ash and gases in the atmosphere probably contributed to the cooling. At the end of the Cretaceous period, another tremendous mass extinction event occurred. This event was sudden, and there is abundant evidence to suggest that it was caused by the impact of a giant asteroid. Another mass extinction occurred near the end of the Eocene about 35 million years ago.

**Sub questions**

Question Number : 146 Question Id : 61198714137 Question Type : MCQ Option Shuffling : No Display Question

Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

End of the Devonian period corresponds most likely to the period

1. ~ 90 million years ago
2. ~ 353 million years ago
3. ~ 245 million years ago
4. ~ 533 million years ago

**Options :**

61198755081. 1

61198755082. 2

61198755083. 3

61198755084. 4

Question Number : 147 Question Id : 61198714138 Question Type : MCQ Option Shuffling : No Display Question

Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Among the mass extinctions mentioned in the passage, the most devastating loss of marine life occurred near the end of

1. Ordovician
2. Devonian
3. Permian
4. Eocene

**Options :**

61198755085. 1

61198755086. 2

61198755087. 3

61198755088. 4

Question Number : 148 Question Id : 61198714139 Question Type : MCQ Option Shuffling : No Display Question

Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Mass extinction at the end of Cretaceous period was likely caused by

1. Global warming
2. Global cooling
3. Global cooling followed by global warming
4. Impact of giant asteroid

**Options :**

61198755089. 1

61198755090. 2

61198755091. 3

61198755092. 4

**Question Number : 149 Question Id : 61198714140 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

Global cooling followed by rapid global warming accompanied with large variations in climate was the most likely cause of mass extinctions pertaining to which period?

1. At the end of the Cretaceous period
2. Near the end of the Devonian
3. Near the end of the Permian
4. Near the end of the Ordovician

**Options :**

61198755093. 1

61198755094. 2

61198755095. 3

61198755096. 4

**Question Number : 150 Question Id : 61198714141 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

Global cooling has been associated with mass extinctions that occurred near the end of \_\_\_\_\_.

1. Ordovician, Cretaceous and Permian
2. Ordovician, Eocene and Permian
3. Ordovician, Cretaceous and Devonian
4. Ordovician, Devonian and Permian

**Options :**

61198755097. 1

61198755098. 2

61198755099. 3

61198755100. 4