National Testing Agency

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General Paper

Section Id :	342123180
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Sub-Section Id :	342123534
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Question Id : 34212313605 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 cumulative percentage distribution of the total number of visitors to Kullu and Manali together and cumulative number of visitors to Kullu on five different days, that is Monday to Friday. Based on the data in the table, answer the questions.

Day-wise Distribution of visitors		
Day	Cumulative percentage of Visitors to Kullu and Manali	Cumulative number of Visitors to Kullu
Monday	15%	360
Till Tuesday	40%	1060
Till Wednesday	70%	1540
Till Thursday	80%	1700
Till Friday	100%	1960

Note: Total number of visitor to Kullu and Manali together in all five days is 4000

Sub questions

Question Number : 1 Question Id : 34212313606 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The total number of visitors to Manali on Monday and Wednesday is _____ % of the number of visitors to Kullu on Wednesday.

1. 200

2. 150

3. 125

4. 50

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 2 Question Id : 34212313607 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

What is the average number of visitors to Manali on all the days except Monday?

1. 560

2. 520

3. 490

4. 450

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 3 Question Id : 34212313608 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

If 20% of the visitors to Kullu on Tuesday are foreigners and 40% of the visitors to Manali on Friday are foreigners, then what is the total number of visitors to Kullu on Tuesday who are not foreigners and to Manali on Friday who are foreigners?

1. 920

2. 776

3. 984

4. 844

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 4 Question Id : 34212313609 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The average number of visitors to Kullu on Monday and Thursday is _____% less than the number of visitors to Manali on Wednesday.

1. 53.29

2. 63.89

3. 67.44

4. 50.28

Options :

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

Question Number : 5 Question Id : 34212313610 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

What is the ratio of the number of visitors to Manali on Wednesday to the number of visitors to Kullu on Thursday?

1. 9:2

2. 4:3

3. 2:9

4. 3:4

Options :

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

Question Id : 34212313605 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (1 to 5)

Question Label : Comprehension

निम्नलिखित तालिका में पाँच भिन्न दिनों (सोमवार से शुक्रवार) के कुल्लू और मनाली के एक साथ मिलाकर पर्यटकों की कुल संख्या का संचयी प्रतिशत वितरण और कुल्लू के पर्यटकों की संचयी संख्या प्रदर्शित है। तालिका में दिये गये आँकडों के आधार पर प्रश्नों के उत्तर दीजिए:

पर्यटकों का दिन – वार वितरण		
दिन	कुल्लू और मनाली के पर्यटकों का संचयी प्रतिशत	कुल्लू के पर्यटकों की संचयी संख्या
Monday	15%	360
Till Tuesday	40%	1060
Till Wednesday	70%	1540
Till Thursday	80%	1700
Till Friday	100%	1960

नोट: सभी पाँच दिनों में कुल्लू और मनाली के कुल पर्यटकों की कुल संख्या 4000 है।

Sub questions

Question Number : 1 Question Id : 34212313606 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

सोमवार और बुधवार को मनाली के पर्यटकों की कुल संख्या बुधवार को कुल्लू के पर्यटकों की संख्या का कितना प्रतिशत है?

1. 200

2. 150

3. 125

4. 50

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 2 Question Id : 34212313607 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

सोमवार को छाड़कर सभी दिनों में मनाली के पर्यटकों की औसत संख्या कितनी है?

1. 560

2. 520

3. 490

4. 450

Options :

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

Question Number : 3 Question Id : 34212313608 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

यदि मंगलवार को कुल्लू के 20% पर्यटक विदेशी हैं तथा शुक्रवार को मनाली के 40% पर्यटक विदेशी हैं, तो मंगलवार को कुल्लू के वे पर्यटक विदेशी नहीं हैं तथा शुक्रवार को मनाली के वे पर्यटक जो विदेशी हैं, की कुल संख्या कितनी है?

1. 920

2. 776

3. 984

4. 844

Options :

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

Question Number : 4 Question Id : 34212313609 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

सोमवार तथा गुरुवार को कुल्लू के पर्यटकों की औसत संख्या बुधवार को मनाली के पर्यटकों की संख्या की अपेक्षा कितने प्रतिशत (%) कम है?

1. 53.29

2. 63.89

3. 67.44

4. 50.28

Options :

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

Question Number : 5 Question Id : 34212313610 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

बुधवार को मनाली के पर्यटकों की संख्या का गुरुवार को कुल्लू के पर्यटकों की संख्या से अनुपात कितना है?

1. 9:2

2. 4:3

3. 2:9

4. 3:4

Options :

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

Sub-Section Number : 2

Sub-Section Id : 342123535

Question Shuffling Allowed : Yes

Question Number : 6 Question Id : 34212313611 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following are the characteristics of learner centered Approach?

A. It lays emphasis on skills
B. It is centered on learner's needs
C. It is centered on cooperative determination of subject matter
D. Lays emphasis on variability of exposure

Choose the ***most appropriate*** answer from the options given below:

1. C and D only

2. A, B and C only

3. A, B, C and D

4. B and D only

Options :

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

Question Number : 6 Question Id : 34212313611 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

अधिगमकर्ता केन्द्रित उपागम की विशेषताएँ निम्नलिखित में से कौन सी हैं?

A. यह कौशल पर बल देता है
B. यह अधिगमकर्ता के आवश्यकताओं पर केन्द्रित होता है
C. यह विषयगत मामलों के सहकारी निर्धारण पर केन्द्रित होता है
D. यह उद्भासन की परिवर्तनशीलता पर बल देता है

नीचे दिए गए विकल्पों में से ***सही*** उत्तर का चयन कीजिए:

1. केवल C और D

2. केवल A, B और C

3. A, B, C और D

4. केवल B और D

Options :

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

Question Number : 7 Question Id : 34212313612 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following is a free and Open-source content collaboration framework based on Javascript that enables existing CMSs and LMSs to create richer content?

1. H5P
2. Plotagon
3. Mindmeister
4. Labster

Options :

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

Question Number : 7 Question Id : 34212313612 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

निम्न में से जावा स्क्रिप्ट पर आधारित वह कौन सा निशुल्क व मुक्त विषय-वस्तु सहकार फ्रेमवर्क है जो विद्यमान सी एम एस और एल एम एस को अधिक समृद्ध विषय-वस्तु की रचना करने में समर्थ बनाता है?

1. H5P
2. प्लोटागोन
3. माइंडमेइस्टर
4. लेब्स्टर

Options :

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

Question Number : 8 Question Id : 34212313613 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

A child of first class is trying to learn how to draw a circle on his own but is able to do with the help of his/her teacher. In the light of Vygotsky's theory, it highlights?

1. Assimilation

2. Adoption

3. Zone of proximal development

4. Maturation

Options :

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

Question Number : 8 Question Id : 34212313613 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

पहली कक्षा का एक बच्चा अपने आपसे वृत्त बनाने का प्रयास कर रहा है किन्तु अपने शिक्षक की सहायता से वृत्त बना पाता है। विगोत्स्की के सिद्धांत के आलोक में यह किसे रेखांकित करता है?

1. आत्मसातीकरण

2. अधिग्रहण

3. निकटस्थ विकास क्षेत्र

4. परिपक्वन

Options :

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

Question Number : 9 Question Id : 34212313614 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Project method of teaching was first propounded by.

1. Crow and Crow
2. John Dewey
3. Robert Miller
4. Robert Mager

Options :

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

Question Number : 9 Question Id : 34212313614 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

शिक्षण की परियोजना विधि का प्रतिपादन सर्वप्रथम किसने किया था?

1. क्रो और क्रो
2. जॉन डिवी
3. राबर्ट मिलर
4. राबर्ट मेगर

Options :

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

Question Number : 10 Question Id : 34212313615 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

SWAYAM is a programme initiated by.

1. Government of India

2. National Council of Education Research and Training

3. University Grants commission

4. Indira Gandhi National Open University

Options :

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

Question Number : 10 Question Id : 34212313615 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

स्वयं (SWAYAM) किसके द्वारा आरंभ किया गया एक कार्यक्रम है?

1. भारत सरकार

2. राष्ट्रीय शैक्षिक अनुसंधान एवं प्रशिक्षण परिषद

3. विश्वविद्यालय अनुदान आयोग

4. इंदिरा गांधी राष्ट्रीय मुक्त विश्वविद्यालय

Options :

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

Question Number : 11 Question Id : 34212313616 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

If a conclusion incorporates a casual relationship between two or more variables it has measured.

1. External validity

2. Internal validity

3. Replicability

4. Conceptualisation

Options :

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

Question Number : 11 Question Id : 34212313616 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

यदि एक निष्कर्ष दो या अधिक चरों के बीच कारणात्मक संबंध को समाविष्ट करता है तो उसने किसका मापन कर लिया है?

1. बाह्य वैधता

2. आंतरिक वैधता

3. पुनरावृत्तिता (रिप्लिकेबिलिटी)

4. अवधारणाकरण

Options :

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

Question Number : 12 Question Id : 34212313617 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

An instrument used in structured observation that mentions the categories of behaviour to be observed is known as.

1. Category schedule

2. Observation device

3. Observation schedule

4. Ontological tool

Options :

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

Question Number : 12 Question Id : 34212313617 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

संरचित प्रेक्षण में प्रयुक्त होनेवाले उस साधन को किस रूप में जाना जाता है, जो प्रेक्षित किए जाने वाले व्यवहार के वर्गों का उल्लेख करता है?

1. वर्ग सूची (शिड्यूल)

2. प्रेक्षण युक्ति (डिवाइस)

3. प्रेक्षण अनुसूची

4. सत्तामूलक उपकरण (टूल)

Options :

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

Question Number : 13 Question Id : 34212313618 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Response of participants who are well aware of the fact that they are being studied is considered as.

1. Directed response

2. Intentional response

3. Desire effect

4. Reactive effect

Options :

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

Question Number : 13 Question Id : 34212313618 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

उन प्रतिभागियों की अनुक्रिया को क्या माना जाता है, जो इस तथ्य से सुपरिचित हैं कि उनके बारे में अध्ययन किया जा रहा है?

1. निर्देशित अनुक्रिया

2. साभिप्रायित अनुक्रिया

3. वांछित प्रभाव

4. प्रतिक्रियात्मक प्रभाव

Options :

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

Question Number : 14 Question Id : 34212313619 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following are different types of ethnography?

A. Classical ethnography
B. Mainstream ethnography
C. Post-modern ethnography
D. Private ethnography
E. Expressive ethnography

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 :

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

Question Number : 14 Question Id : 34212313619 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

नृजाति - वर्णन के निम्नलिखित में से कौनसे विभिन्न प्रकार हैं?

A. शास्त्रीय नृजाति-वर्णन
B. मुख्यधारा नृजाति-वर्णन
C. उत्तर आधुनिक नृजाति-वर्णन
D. व्यक्तिगत नृजाति-वर्णन
E. अभिव्यक्तात्मक नृजाति-वर्णन

नीचे दिए गए विकल्पों में से ***सही*** उत्तर का चयन कीजिए:

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 :

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

Question Number : 15 Question Id : 34212313620 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Qualitative research makes use of.

1. Scaling
2. Factoring
3. Representative quotations
4. SPSS

Options :

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

Question Number : 15 Question Id : 34212313620 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

गुणवत्तापरक शोध किसका उपयोग करता है?

1. अनुमाप (स्केलिंग)
2. कारक विश्लेषण (फॅक्टरिंग)
3. प्रतिनिधिक उद्धरण
4. एस.पी.एस.एस

Options :

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

Question Number : 16 Question Id : 34212313621 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

In ancient times, the oral communication system operated in an environment that was.

1. Literate

2. Urban

3. non-representative

4. Mediated

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 16 Question Id : 34212313621 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

प्राचीन काल में किस वातावरण में मौखिक सम्प्रेषण प्रणाली को परिचालित किया जाता था?

1. साक्षर

2. नगरीय

3. गैर - प्रतिनिधिक

4. माध्यत (मीडिएटेड)

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 17 Question Id : 34212313622 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Any study of messages at the receivers stage is known as.

1. Communicator analysis
2. Message analysis
3. Noise analysis
4. Audience analysis

Options :

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

Question Number : 17 Question Id : 34212313622 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

प्राप्तकर्ताओं के चरण पर संदेशों के किसी भी अध्ययन को किस रूप में जाना जाता है?

1. सम्प्रेषक विश्लेषण
2. संदेश विश्लेषण
3. शोरगुल विश्लेषण (नॉइज एनालिसिस)
4. आग्राहक (ऑडियंस) विश्लेषण

Options :

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

Question Number : 18 Question Id : 34212313623 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following are main functions of mass communication?

A. Detachment of individual from society
B. Indulge in message creation without worrying about moral consequences
C. Surveillance of environment
D. Transmission of social heritage
E. Correlating the parts of society in response to environment

Choose the correct answer from the options given below:

1. A, B and C only

2. C, D and E only

3. A, B and D only

4. A, D and E only

Options :

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

Question Number : 18 Question Id : 34212313623 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

निम्नलिखित में से कौनसे जन संचार के मुख्य प्रकार्य हैं?

A. व्यक्तियों की समाज से अनासक्ति
B. नैतिक परिणामों के बारे में चिंता किए बिना संदेश बताने में लिप्त होना
C. वातावरण की निगरानी
D. सामाजिक घरोहर का संचारण
E. वातावरण के प्रति अनुक्रिया में समाज के अंगों को सह-संबंधित करना

नीचे दिए गए विकल्पों में से ***सही*** उत्तर का चयन कीजिए:

1. केवल A, B और C

2. केवल C, D और E

3. केवल A, B और D

4. केवल A, D और E

Options :

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

Question Number : 19 Question Id : 34212313624 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

For preservation of their power the ruling elites seek from media channels.

1. Societal intelligence
2. Entrepreneurial partnership
3. Digital technology diffusion
4. Voices of dissent

Options :

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

Question Number : 19 Question Id : 34212313624 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

शासक कुलीन अपनी शक्ति के संरक्षण हेतु मीडिया चौनलों से निम्न में से क्या चाहते हैं?

1. सामाजिक बुद्धिमता
2. उद्यमीयता भागीदारी
3. डिजिटल प्रौद्योगिकी विसरण
4. विरोध को स्वर

Options :

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

Question Number : 20 Question Id : 34212313625 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Individual who live in a particular community develop distinctively patterned systems of

1. Information distribution

2. Media ownership

3. Media marketing

4. Information imperialism

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 20 Question Id : 34212313625 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

एक विशेष समुदाय में निवास करने वाले व्यक्तियों में निम्न में से कौन सी सुस्पष्ट पैटर्न वाली प्रणालियां विकसित हो जाती हैं?

1. सूचना वितरण

2. मीडिया स्वामित्व

3. मीडिया विपणन

4. सूचना साम्राज्यवाद

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 21 Question Id : 34212313626 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Two persons X and Y invested ₹ 15,000 and ₹ 20,000, respectively, in a business. At the end of the year, they share the profit in the ratio of 3:1. If X has invested his money for the whole year, for how many months Y has invested his money?

1. 3

2. 6

3. 5

4. 4

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 21 Question Id : 34212313626 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

दो व्यक्तियों X और Y ने एक व्यवसाय में क्रमशः ₹ 15,000 और ₹ 20,000 का निवेश किया। वर्ष के अंत में उन्होंने लाभ को 3:1 के अनुपात में बांट लिया। यदि X ने अपने धन का निवेश पूरे वर्ष के लिए किया है तो Y ने अपने धन का निवेश कितने माह के लिए किया है?

1. 3

2. 6

3. 5

4. 4

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 22 Question Id : 34212313627 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

In a certain code language A is coded as Z, B is coded as Y, C is coded as X, and so on. How 'PERFECT' will be coded in that language?

1. KVIUVXG

2. KVIVUXG

3. KVIUVGX

4. KVUIVXG

Options :

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

Question Number : 22 Question Id : 34212313627 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

एक कूट भाषा में A को Z के रूप में कूटबद्ध किया गया है, B को Y के रूप में कूटबद्ध किया गया है, C को X के रूप में कूटबद्ध किया गया है और इसीप्रकार आगे कूटबद्ध किया गया है। उक्त भाषा में 'PERFECT' को कैसे कूटबद्ध किया जाएगा?

1. KVIUVXG

2. KVIVUXG

3. KVIUVGX

4. KVUIVXG

Options :

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

Question Number : 23 Question Id : 34212313628 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

A sum of money becomes ₹ 34800 in 2 years and ₹ 42,000 in 5 years at simple interest per annum. Find the rate of interest and the sum of money respectively

1. 6%, ₹ 40,000

2. 7%, ₹ 30,000

3. 8%, ₹ 30,000

4. 5%, ₹ 35,000

Options :

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

Question Number : 23 Question Id : 34212313628 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

एक धनराशि वार्षिक साधारण ब्याज दर पर 2 वर्ष में ₹ 34800 और 5 वर्ष में ₹ 42,000 हो जाती है। क्रमशः ब्याज दर व धनराशि ज्ञात कीजिए:

1. 6%, ₹ 40,000

2. 7%, ₹ 30,000

3. 8%, ₹ 30,000

4. 5%, ₹ 35,000

Options :

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

Question Number : 24 Question Id : 34212313629 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

What number would replace question mark (?) in the series given below?
1, 7, 16, 28, 43, 61, 82 ?

1. 102

2. 143

3. 106

4. 110

Options :

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

Question Number : 24 Question Id : 34212313629 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

निम्नलिखित श्रृंखला में प्रश्नवाचक चिन्ह (?) को कौन सी संख्या प्रतिस्थापित करेगी?
1, 7, 16, 28, 43, 61, 82?

1. 102

2. 143

3. 106

4. 110

Options :

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

Question Number : 25 Question Id : 34212313630 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

In an examination, average marks of six students is 50. However, during cross checking of the papers, it is found that the marks of one student has been misread as 48 instead of 84. Find the correct average marks of the students.

1. 52

2. 54

3. 56

4. 58

Options :

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

Question Number : 25 Question Id : 34212313630 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

एक परीक्षा में छह विद्यार्थियों के औसत अंक 50 है। तथापि पेपरों की पुनः जांच करनेपर पाया गया कि एक विद्यार्थी के अंकों को 84 के स्थान पर गलती से 48 पढ़ लिया गया था। विद्यार्थियों का सही औसत अंक ज्ञात कीजिए:

1. 52

2. 54

3. 56

4. 58

Options :

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

Question Number : 26 Question Id : 34212313631 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which informal fallacy is committed in the following statement "Famous actor Jimmy Pecker has said in an interview that astrology is a real science, therefore scientists now must acknowledge that astrology is actually a science."?

1. Appeal to Inappropriate authority

2. Red herring

3. Strawman

4. Appeal to Ignorance

Options :

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

Question Number : 26 Question Id : 34212313631 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

निम्नलिखित कथन में कौनसा अनाकारिक तर्क - दोष है?
"प्रसिद्ध अभिनेता जिमी पैकर ने एक साक्षात्कार में कहा है कि ज्योतिष विज्ञान एक वास्तविक विज्ञान है, इसलिए वैज्ञानिकों को अवश्य मान लेना चाहिए कि ज्योतिष विज्ञान वास्तविक रूप से एक विज्ञान है।"

1. अनुपयुक्त प्राधिकार से आग्रह

2. भ्रामक संकेत (रेड हेरिंग)

3. घास का पुतला (स्ट्रॉमेन)

4. पराज्ञातमूलक युक्ति

Options :

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

Question Number : 27 Question Id : 34212313632 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following statements are subalternate as per traditional square of opposition?

A. All plants are green organisms
B. No plants are green organisms
C. Some plants are not green organisms
D. Some plants are green organisms

Choose the correct answer from the options given below:

1. A and D only

2. B and D only

3. A and C only

4. A and B only

Options :

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

Question Number : 27 Question Id : 34212313632 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

निम्नलिखित में से कौनसे कथन विरोध के पारम्परिक वर्ग के उपाश्रित हैं?

A. सभी पादप हरित जीव हैं।
B. कोई भी पादप हरित जीव नहीं हैं।
C. कुछ पादप हरित जीव नहीं हैं।
D. कुछ पादप हरित जीव हैं।

नीचे दिए गए विकल्पों में से ***सही*** उत्तर का चयन कीजिए:

1. केवल A और D

2. केवल B और D

3. केवल A और C

4. केवल A और B

Options :

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

Question Number : 28 Question Id : 34212313633 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following statements are logically equivalent?

A. All cats are carnivorous animals
B. All non-carnivorous animals are non-cats
C. No cats are non-carnivorous animals
D. Some carnivorous animals are cats

Choose the correct answer from the options given below:

1. A, B and C only

2. B, C and D only

3. A, C and D only

4. C and D only

Options :

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

Question Number : 28 Question Id : 34212313633 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

निम्नलिखित में से कौनसे कथन तार्किक रूप से समतुल्य हैं?

A. सभी बिल्लियां मांसाहारी पशु हैं।
B. सभी गैर - मांसाहारी पशु गैर - बिल्लियां हैं।
C. कोई भी बिल्ली गैर - मांसाहारी पशु नहीं हैं।
D. कुछ मांसाहारी पशु बिल्लियां हैं।

नीचे दिए गए विकल्पों में से ***सही*** उत्तर का चयन कीजिए:

1. केवल A, B और C

2. केवल B, C और D

3. केवल A, C और D

4. केवल C और D

Options :

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

Question Number : 29 Question Id : 34212313634 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

If the statement "all lions are carnivorous animals" is given as true which of the following statements can be immediately inferred to be false?

A. No lions are carnivorous animals
B. Some lions are carnivorous animals
C. Some lions are not carnivorous animals
D. Some carnivorous animals are lions

Choose the correct answer from the options given below:

1. C and D only

2. A and C only

3. A and B only

4. B and C only

Options :

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

Question Number : 29 Question Id : 34212313634 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

यदि इस कथन -"सभी शेर मांसाहारी पशु हैं" को सत्य के रूप में दिया गया हैं तो निम्नलिखित में से कौनसे कथन / कथनों का असत्य के रूप में तात्कालिक अनुमान किया जा सकता है?

A. कोई भी शेर मांसाहारी पशु नहीं होते हैं।
B. कुछ शेर मांसाहारी पशु होते हैं।
C. कुछ शेर मांसाहारी पशु नहीं होते हैं।
D. कुछ मांसाहारी पशु शेर होते हैं।

नीचे दिए गए विकल्पों में से ***सही*** उत्तर का चयन कीजिए:

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

Options :

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

Question Number : 30 Question Id : 34212313635 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

As per classical Indian school of logic (Nyāya) which of the following fallacy is committed when the middle term is too wide?

1. Anupasamhāri

2. Bādhita

3. Sādhārana

4. Asādhārana

Options :

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

Question Number : 30 Question Id : 34212313635 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

शास्त्रीय भारतीय तर्क - मत (न्याय) के अनुसार जब मध्य पद अत्याधिक विस्तृत होता है तो उसमें निम्नलिखित में से कौनसा तर्क - दोष होता है?

1. अनूपसम्हारी

2. बाधित

3. साधारण

4. असाधारण

Options :

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

Question Number : 31 Question Id : 34212313636 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Consider the following snapshot of MS-Excel worksheet:

	A	B	C	D
17	Day	Quantity	Sales Amount (₹)	
18	Monday	1	234	
19	Tuesday	3	144	
20	Wednesday	6	367	
21	Thursday	5	674	
22	Friday	8	1099	
23	Saturday	3	233	

In cell D18, the value returned by the function.
=SUMIFS (C18 : C23, B18 : B23, “>3” , C18 : C23, “ >500”) is _____ .

1. 1466

2. 2140

3. 1773

4. 26

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 31 Question Id : 34212313636 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

एम एस - एक्सेल वर्कशीट के निम्नलिखित आशु - चित्र पर विचार कीजिए:

	A	B	C	D
17	दिन	मात्रा	विक्रय राशि (₹)	
18	सोमवार	1	234	
19	मंगलवार	3	144	
20	बुधवार	6	367	
21	बृहस्पतिवार	5	674	
22	शुक्रवार	8	1099	
23	शनिवार	3	233	

Cell D18 में निम्न फलन द्वारा प्रव्यर्पित मूल्य कितना है?
=SUMIFS (C18 : C23, B18 : B23, ">3" , C18 : C23, " >500")

1. 1466
2. 2140
3. 1773
4. 26

Options :

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

Question Number : 32 Question Id : 34212313637 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

In the context of Computer Networks, which of the following best describes the transmission of a message using packet switching?

1. Data packets may follow different routes and may arrive at different times in different order.
2. Data packets will always follow the same route and arrive at the same time in the same order
3. Data packets will always follow the same route but could arrive at different times in different order
4. Data packets may follow different routes but will always arrive at the same time in the same order

Options :

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

Question Number : 32 Question Id : 34212313637 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

कंप्यूटर नेटवर्कों के संदर्भ में, पैकेट स्विचिंग का प्रयोग कर संदेश प्रेषण का निम्नलिखित में से कौन सर्वोत्तम वर्णन करता है?

1. डेटा पैकेट भिन्न - भिन्न मार्ग ले सकते है और भिन्न क्रम में भिन्न समयों पर पहुंच सकते हैं।
2. डेटा पैकेट हमेशा एक ही मार्ग लेंगे और एक ही क्रम में एक ही समय पर पहुंचेंगे।
3. डेटा पैकेट हमेशा एक ही मार्ग लेंगे परन्तु भिन्न क्रम में भिन्न - भिन्न समयों पर पहुंच सकते हैं।
4. डेटा पैकेट भिन्न - भिन्न मार्ग ले सकते है परन्तु वे हमेशा एक ही क्रम में एक ही समय पर पहुंचेंगे।

Options :

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

Question Number : 33 Question Id : 34212313638 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following statements is true about Number system?

1. The binary equivalent of the decimal number 57.625 is 111000.101
2. $(145)_6 = (75)_{10}$
3. $(1011)_2 + (1001)_2 = (20)_{10}$
4. $(65)_{10} = (220)_5$

Options :

1. 1
2. 2
3. 3

4. 4

Question Number : 33 Question Id : 34212313638 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

प्रणाली के संबंध में निम्न में से कौन सा कथन सही है

1. दशमलव संख्या 57.625 का द्विचर तुल्य 111000.101 है।

2. $(145)_6 = (75)_{10}$

3. $(1011)_2 + (1001)_2 = (20)_{10}$

4. $(65)_{10} = (220)_5$

Options :

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

Question Number : 34 Question Id : 34212313639 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following statements about Read Only Memory (ROM) are correct?

A. The contents of the memory remain intact even when the power to the ROM is turned off
B. ROM is often used to store the start-up instructions when the computer is first switched on
C. As the ROM becomes full, the processor has to continually access the hard disk
D. ROM is a volalile memory

Choose the correct answer from the options given below:

1. A and B only

2. B and C only

3. A and C only

4. A, B, C and D

Options :

1. 1
2. 2
3. 3

4. 4

Question Number : 34 Question Id : 34212313639 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

केवल पठनीय स्मृति (आर ओ एम) के संबंध में निम्नलिखित में से कौन से कथन सही हैं?

A. आर ओ एम की विद्युत आपूर्ति बंद होने पर भी स्मृति (मेमोरी) की अंतर्वस्तु अक्षत रहती है।
B. आर ओ एम का प्रयोग बहुधा कंप्यूटर को पहले चालू करने पर आरंभिक (स्टार्ट अप) अनुदेशों के भंडारण के लिए किया जाता है।
C. आर ओ एम के भर जाने पर प्रोसेसर को लगातार हार्ड डिस्क का अभिगमन करना होता है।
D. आर ओ एम एक लोपशील स्मृति है।

नीचे दिए गए विकल्पों में से ***सही*** उत्तर का चयन कीजिए:

1. केवल A और B

2. केवल B और C

3. केवल A और C

4. A, B, C और D

Options :

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

Question Number : 35 Question Id : 34212313640 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following statements is true about computers?

1. The quality of the pictures taken by a digital camera depends on its resolution, which is measured in megabytes

2. USB stands for Universal Secure Bus

3. Microsoft Excel is an example of system software

4. The size of a computer monitor is measured diagonally across the screen

Options :

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

Question Number : 35 Question Id : 34212313640 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

कंप्यूटरों के संबंध में निम्न में से कौन सा कथन सही है?

1. डिजिटल कैमरे द्वारा खींचे गए चित्रों की गुणवत्ता उसके रेजोल्यूशन पर निर्भर करती है जिसका मापन मेगाबाइट में किया जाता है।

2. यू एस बी का पूर्ण रूप है यूनिवर्सल सिक्योर बस।

3. माइक्रोसाफ्ट एक्सेल सिस्टम साफ्टवेयर का एक उदाहरण है।

4. कंप्यूटर मानीटर के आकार का मापन स्क्रीन के और - पार विकर्णीय रूप में किया जाता है।

Options :

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

Question Number : 36 Question Id : 34212313641 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which one of the following is used as a reference to measure the Global Warning Potential (GWP) of a green house gas?

1. Carbon dioxide (CO_2)

2. Methane (CH_4)

3. Chlorofluorocarbon (CFC)

4. Hydrofluorocarbon (HFC)

Options :

1. 1
2. 2

3. 3
4. 4

Question Number : 36 Question Id : 34212313641 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

ग्रीन हाउस गैस की वैश्विक उष्मन संभाव्यता (जी डब्ल्यू पी) को मापने के लिए निम्नलिखित में से किसका संदर्भ के रूप में प्रयोग किया जाता है?

1. कार्बन डाईआक्साइड (CO_2)

2. मीथेन (CH_4)

3. क्लोरोफ्लूरोकार्बन (CFC)

4. हाइड्रोफ्लूरोकार्बन (HFC)

Options :

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

Question Number : 37 Question Id : 34212313642 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Sustainable Development Goal 7 is related to.

1. Gender Equality

2. Climate Action

3. Affordable and Clean energy

4. Quality Education

Options :

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

Question Number : 37 Question Id : 34212313642 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

सतत विकास लक्ष्य 7 किससे सम्बधित है?

1. लिंग समानता

2. जलवायु परिवर्तन संबंधी कार्य

3. वहनीय और स्वच्छ ऊर्जा

4. गुणवत्तापरक शिक्षा

Options :

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

Question Number : 38 Question Id : 34212313643 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Toxic substances that damage kidneys are called as.

1. Hematotoxic

2. Neurotoxic

3. Cytotoxic`

4. Nephrotoxic

Options :

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

Question Number : 38 Question Id : 34212313643 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

गुर्दे को क्षति पहुंचाने वाले विषाक्त पदार्थों को निम्नलिखित में से क्या कहा जाता हैं?

1. हेमाटोटोक्सिक

2. न्यूरोटोक्सिक

3. साइटोटोक्सिक

4. नेफ्रोटोक्सिक

Options :

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

Question Number : 39 Question Id : 34212313644 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Montreal Protocol is related to protection of.

1. Biodiversity

2. Glaciers

3. Oceans

4. Stratospheric ozone layer

Options :

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

Question Number : 39 Question Id : 34212313644 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

मॉट्रियल प्रोटोकाल किसके रक्षण से सम्बधित है?

1. जैव विविधता

2. हिमनदियाँ

3. समुद्र

4. समतापमंडलीय ओज़ोन परत

Options :

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

Question Number : 40 Question Id : 34212313645 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following are examples of organic pollutants in water.

A. Salts
B. Pesticides
C. Dioxins
D. Bases
E. Pigments

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. B, C and E only

Options :

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

Question Number : 40 Question Id : 34212313645 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

पानी में कार्बनिक (ऑरगेनिक) प्रदूशकों के निम्नलिखित में कौन से उदाहरण हैं?

A. लवण
B. कीट नाशक
C. डाओक्सिन
D. क्षारक
E. रंजक (पिगमेंट्स)

नीचे दिए गए विकल्पों में से ***सही*** उत्तर का चयन कीजिए:

1. केवल A, B और C

2. केवल B, C और D

3. केवल C, D और E

4. केवल B, C और E

Options :

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

Question Number : 41 Question Id : 34212313646 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

In the Buddhist system of education higher education was placed at.

1. The first level

2. The second level

3. The third level

4. The forth level

Options :

1. 1
2. 2
3. 3

4. 4

Question Number : 41 Question Id : 34212313646 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

बैद्ध शिक्षा व्यवस्था में, उच्च शिक्षा को किस स्थान पर रखा गया था?

1. प्रथम स्तर
2. द्वितीय स्तर
3. तृतीय स्तर
4. चतुर्थ स्तर

Options :

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

Question Number : 42 Question Id : 34212313647 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which one of the following is a deemed to be university?

1. Periyar University, Salem
2. Nagaland University, Kohima
3. Guru Ghasidas Vishwavidyalaya, Bilaspur
4. Gandhigram Rural University, Madurai

Options :

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

Question Number : 42 Question Id : 34212313647 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

निम्नलिखित में से कौनसा समविश्वविद्यालय है?

1. पेरियार विश्वविद्यालय, सलेम

2. नगालैंड विश्वविद्यालय, कोहिमा

3. गुरु घासीदास विश्वविद्यालय, बिलासपुर

4. गांधीग्राम ग्रामीण विश्वविद्यालय, मदुरै

Options :

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

Question Number : 43 Question Id : 34212313648 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following is included among the core values promoted by NAAC (National Assessment and Accreditation Council) among the institutions of higher learning

1. Framing National Education Protocols

2. Promoting religious education

3. Total Privatisation of education

4. Fostering global competencies among students and teachers

Options :

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

Question Number : 43 Question Id : 34212313648 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

एन ए ए सी (राष्ट्रीय मूल्यांकन व प्रत्यायन परिषद) द्वारा उच्चतर शैक्षिक संस्थाओं में संवर्धित मूल मूल्यों में निम्न में से कौन सम्मिलित है?

1. राष्ट्रीय शिक्षा प्रोटोकाल बनाना

2. धार्मिक शिक्षा संवर्धन

3. शिक्षा का पूर्ण निजीकरण

4. विद्यार्थियों व शिक्षकों के बीच वैश्विक सक्षमताओं का पोषण

Options :

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

Question Number : 44 Question Id : 34212313649 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following are true regarding Fort William College?

A. Its medium of education was English
B. Lord Wellesley taught here
C. Ishwar Chandra Vidyasagar taught here
D. It was here that Ishwar Chandra Vidyasagar Studied along with Subhash Chandra Bose

Choose the correct answer from the options given below:

1. A, C and D only

2. B and D only

3. A, B, C, D

4. A and C only

Options :

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

Question Number : 44 Question Id : 34212313649 Question Type : MCQ Option Shuffling : No

Correct Marks : 2 Wrong Marks : 0

फोर्ट विलियम कालेज के संबंध में निम्न में से कौन से कथन सही हैं?

A. यहां शिक्षा का माध्यम अंग्रेजी था।
B. लार्ड वेलेस्ली ने यहां अध्यापन किया था।
C. ईश्वर चन्द्र विद्यासागर ने यहां अध्यापन किया था।
D. यहीं पर ईश्वर चन्द्र विद्यासागर ने सुभाष चन्द्र बोस के साथ अध्ययन किया था।

नीचे दिए गए विकल्पों में से ***सही*** उत्तर का चयन कीजिए:

1. केवल A, C और D

2. केवल B और D

3. A, B, C, D

4. केवल A और C

Options :

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

Question Number : 45 Question Id : 34212313650 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

According to National Education Policy 2020, which of the following universal human values will be considered as an integral part of holistic education?

A. Truth
B. Sympathy
C. Righteous conduct
D. Nonviolence
E. Scientific temper

Choose the correct answer from the options given below:

1. C and E only

2. B, D and E only

3. A, C, D and E only

4. A, B, C and D only

Options :

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

Question Number : 45 Question Id : 34212313650 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

राष्ट्रीय शिक्षा नीति, 2020 के अनुसार, निम्नलिखित में से कौन-से सार्वभौमिक मानवीय मूल्यों को समग्र शिक्षा के अभिन्न-भाग के रूप में समझा जायेगा?

A. सत्य
B. सहानुभूति
C. सदाचार
D. अहिंसा
E. वैज्ञानिक मनस (मनःस्थिति)

नीचे दिए गए विकल्पों में से ***सही*** उत्तर का चयन कीजिए:

1. केवल C और E

2. केवल B, D और E

3. केवल A, C, D और E

4. केवल A, B, C और D

Options :

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

Sub-Section Number :	3
Sub-Section Id :	342123536
Question Shuffling Allowed :	No

Question Id : 34212313651 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (46 to 50)

Question Label : Comprehension

The field ecologist has played a key role in shining the light on the species we love and admire. They have also underlined why conservation should not be just about caring for a few charismatic species-the cats, elephants, whales, or Olive Ridleys. It's also about knowing the value of creatures many of us might consider annoying, even dangerous. For millennia, communities have attempted to protect animals and plants for practical and spiritual reasons. However, for around two centuries or so, an anthropocentric view of the world created an ecological discord of sorts. Utilitarian ideas began to dominate attitudes towards nature, which often meant that even conservation had a strictly commercial purpose.

Modern environmental consciousness is perhaps about six decades old. In India, organisations such as the Bombay Natural History Society date back to the late 19th century and the endeavors of hunters-turned-conservationists played an important role in underlining the value of several species. But systematic efforts in mainstreaming ecology began much later and owed much to the works of pioneers like Salim Ali and M Krishnan.

Sub questions

Question Number : 46 Question Id : 34212313652 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Utilatitarian ideas started dominating attitudes towards nature about.

1. 2000 years ago
2. 60 years ago
3. 100 years ago
4. 200 years ago

Options :

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

Question Number : 47 Question Id : 34212313653 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Modern environment consciousness is.

1. ~ 20 years old

2. ~ 40 years old

3. ~ 60 years old

4. ~ 100 years old

Options :

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

Question Number : 48 Question Id : 34212313654 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Identify the charismatic species based on the information given in the passage.

A. Deer
B. Whales
C. Elephants
D. Dogs

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 D only

Options :

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

Question Number : 49 Question Id : 34212313655 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Identify the correct statements.

A. Conservations is all about caring for the species we love and admire
B. Communities have been living in ecological harmony for the last two centuries
C. Field ecologists have contributed to our understanding about the value of different species in our lives
D. Salim Ali is considered as pioneer in India in the field of mainstream ecology

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 D only

Options :

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

Question Number : 50 Question Id : 34212313656 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Communities have been involved in the protection of plants and animals for the last.

1. Several thousand years

2. 200 years only

3. 60 years only

4. only recently

Options :

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

Question Id : 34212313651 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 पढ़िये और उससे संबंधित प्रश्नों के उत्तर दीजिए:

हम जिन प्रजातियों से प्रेम करते हैं तथा हम जिनकी प्रशंसा करते हैं, क्षेत्र पारिस्थितिकी विज्ञानियों ने उन पर प्रकाश डालने में महत्वपूर्ण भूमिका निभाई है। उन्होंने यह भी रेखांकित किया है कि कुछ करिश्माई प्रजातियों – बिल्लियों, हाथियों, व्हेल या ऑलिव रिडले, की देखभाल मात्र ही संरक्षण नहीं होना चाहिए। यह उन जीवों की महत्ता को जानने के बारे में भी है जिन्हें हममें से अनेकों लोग क्षोभकारक, यहाँ तक कि खतरनाक भी मानते हैं।

सहस्त्राब्दियों से, समुदायों ने व्यवहारिक एवं आध्यात्मिक कारणों से पशुओं एवं पादपों के संरक्षण का प्रयास किया है। इसके बावजूद, लगभग दो शताब्दियों या उसके आसपास विश्व के मानव – केन्द्रित दृष्टिकोण ने एक प्रकार का पारिस्थितिकीय मतभेद उत्पन्न किया। उपयोगितावादी विचारों ने प्रकृति के प्रति प्रभुत्वकारी अभिवृत्तियों की शुरुआत की, जिसका प्रायः आशय यह था कि संरक्षण का भी एक सही अर्थों में व्यावसायिक प्रयोजन था।

आधुनिक पर्यावरणीय चेतना संभवतः लगभग छह दशक पुरानी है। भारत में, बाम्बे प्राकृतिक इतिहास सोसायटी जैसे संगठन 19वीं सदी के अंतिम वर्षों में आरंभ हुए थे और शिकारियों से संरक्षणवादियों में परिणत हुए व्यक्तियों के प्रयत्नों ने अनेकों प्रजातियों की महत्ता को रेखांकित करने में महत्वपूर्ण भूमिका निभाई थी। किन्तु पारिस्थितिकी – विज्ञान को मुख्य धारा में लाने का प्रयास बहुत बाद में प्रारंभ हुआ और इसके लिए सलीम अली एवं एम कृष्णनन जैसे पुरोधाओं के प्रयासों को इसका श्रेय अधिक जाता है।

Sub questions

Question Number : 46 Question Id : 34212313652 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

उपयोगितावादी विचारों ने कब प्रकृति के प्रति मनोवृत्तियों पर प्रबल होना प्रारम्भ किया था?

1. 2000 वर्ष पहले
2. 60 वर्ष पहले
3. 100 वर्ष पहले
4. 200 वर्ष पहले

Options :

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

Question Number : 47 Question Id : 34212313653 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

आधुनिक पर्यावरणीय चेतना हैः

1. ~ 20 वर्ष पुरानी

2. ~ 40 वर्ष पुरानी

3. ~ 60 वर्ष पुरानी

4. ~ 100 वर्ष पुरानी

Options :

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

Question Number : 48 Question Id : 34212313654 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

गद्यांश में दी गई सूचना के आधार पर करिश्माई प्रजातियों की पहचान कीजिए:

A. मृग
B. व्हेल
C. हाथी
D. कुत्ते

नीचे दिए गए विकल्पों में से ***सही*** उत्तर का चयन कीजिए:

1. केवल A और B

2. केवल B और C

3. केवल C और D

4. केवल A और D

Options :

1. 1
2. 2
3. 3

4. 4

Question Number : 49 Question Id : 34212313655 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

सही कथनों की पहचान कीजिए:?

A. संरक्षण उन जीवजातियों की देखभाल के बारे में सब - कुछ है, जिनके प्रति हमारा प्रेम और अनुरुग है।
B. समुदाय पिछली दो शताब्दियों से पारिस्थितिकीय सौहार्द से रह रहे हैं।
C. क्षेत्र पारिस्थिति विज्ञानियों (फील्ड इकोलॉजिस्ट्स) ने हमारे जीवन में विभिन्न जीवजातियों के महत्व के बारे में हमारी समझ में योगदान किया है।
D. सलीम अली को मुख्यधारा के पारिस्थिति विज्ञान के क्षेत्र में भारत में एक प्रणेता माना जाता है।

नीचे दिए गए विकल्पों में से ***सही*** उत्तर का चयन कीजिए:

1. केवल A और B

2. केवल B और C

3. केवल C और D

4. केवल A और D

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 50 Question Id : 34212313656 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

समुदाय पिछले कितने वर्षों से पौधों और जानवरों के संरक्षण में सम्मिलित रहे हैं?

1. अनेक हजार वर्षों से

2. केवल 200 वर्षों से

3. केवल 60 वर्षों से

4. केवल हाल के समय से

Options :

1. 1

2. 2
3. 3
4. 4

Environmental Sciences

Section Id :	342123181
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 :	342123537
Question Shuffling Allowed :	Yes

Question Number : 51 Question Id : 34212313657 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

An air parcel undergoes compression i.e its volume deceases, then its internal energy ____
[Given: First law of thermodynamics dU= dQ+dW]
dW= - pdV, dQ=0

1. Will decrease

2. Will remain constant

3. Will increase

4. Cannot be predicted with above information

Options :

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

Question Number : 51 Question Id : 34212313657 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

An air parcel undergoes compression i.e its volume deceases, then its internal energy ____
[Given: First law of thermodynamics dU= dQ+dW]
dW= - pdV, dQ=0

1. Will decrease

2. Will remain constant

3. Will increase

4. Cannot be predicted with above information

Options :

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

Question Number : 52 Question Id : 34212313658 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Spectral Actinic flux is best expressed in the units of

1. $m^{-2}\ s^{-1}$

2. $cm^{-2}\ s^{-1}\ nm^{-1}$

3. $cm^{2}\ molecule^{-1}\ nm^{-1}$

4. $W\ m^{-2}\ nm^{-1}$

Options :

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

Question Number : 52 Question Id : 34212313658 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Spectral Actinic flux is best expressed in the units of

1. $m^{-2}\ s^{-1}$

2. $cm^{-2}\ s^{-1}\ nm^{-1}$

3. $cm^{2}\ molecule^{-1}\ nm^{-1}$

4. $W\ m^{-2}\ nm^{-1}$

Options :

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

Question Number : 53 Question Id : 34212313659 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following is not an ecological principle of sustainable development?

1. Biophysical limits

2. Interdependence

3. Ecological Justice

4. Dependence

Options :

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

Question Number : 53 Question Id : 34212313659 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following is not an ecological principle of sustainable development?

1. Biophysical limits

2. Interdependence

3. Ecological Justice

4. Dependence

Options :

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

Question Number : 54 Question Id : 34212313660 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the following scientist in order of their contribution in the evolution of branch of ecology.

A. Arthur Transley
B. Ernst Haeckel
C. Eugene Odum
D. Geoffroy Saint-Hilaire
E. Hanns Reiter

Choose the ***most appropriate*** answer from the options given below:

1. E, D, B, A, C

2. D, E, B, A, C

3. D, E, B, C, A

4. E, B, D, A, C

Options :

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

Question Number : 54 Question Id : 34212313660 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the following scientist in order of their contribution in the evolution of branch of ecology.

A. Arthur Transley
B. Ernst Haeckel
C. Eugene Odum
D. Geoffroy Saint-Hilaire
E. Hanns Reiter

Choose the ***most appropriate*** answer from the options given below:

1. E, D, B, A, C

2. D, E, B, A, C

3. D, E, B, C, A

4. E, B, D, A, C

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 55 Question Id : 34212313661 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following are open source software used in geospatial data processing?

A. Arc GIS
B. Erdas imagine
C. QGIS
D. iLWiS
E. SAGA GIS

Choose the ***most appropriate*** 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. B, C and E Only

Options :

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

Question Number : 55 Question Id : 34212313661 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following are open source software used in geospatial data processing?

A. Arc GIS
B. Erdas imagine
C. QGIS
D. iLWiS
E. SAGA GIS

Choose the ***most appropriate*** 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. B, C and E Only

Options :

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

Question Number : 56 Question Id : 34212313662 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I Wavelength (um)		**LIST II Principal Application**	
A.	0.52 - 0.62	I.	Mineral and Rock types
B.	1.55 - 1.75	II.	Vegetation Vigour assessment
C.	10.4 - 12.5	III.	Soil moisture
D.	2.08 - 2.35	IV.	Thermal Mapping

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-I, B-III, C-IV, D-II

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

Options :

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

Question Number : 56 Question Id : 34212313662 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I Wavelength (um)		**LIST II Principal Application**	
A.	0.52 - 0.62	I.	Mineral and Rock types
B.	1.55 - 1.75	II.	Vegetation Vigour assessment
C.	10.4 - 12.5	III.	Soil moisture
D.	2.08 - 2.35	IV.	Thermal Mapping

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-I, B-III, C-IV, D-II

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

Options :

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

Question Number : 57 Question Id : 34212313663 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I Weather Phenomenon		**LIST II Characteristics**	
A.	Cyclone	I.	Gale winds
B.	Thunderstorm	II.	Smallest most violent weather disturbance
C.	Hurricane	III.	Brief but intense storm with rain and lightening
D.	Tornado	IV.	Low pressure center where the winds move counter-clockwise into low pressure center

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

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

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

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

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

Options :

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

Question Number : 57 Question Id : 34212313663 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I Weather Phenomenon		**LIST II Characteristics**	
A.	Cyclone	I.	Gale winds
B.	Thunderstorm	II.	Smallest most violent weather disturbance
C.	Hurricane	III.	Brief but intense storm with rain and lightening
D.	Tornado	IV.	Low pressure center where the winds move counter-clockwise into low pressure center

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

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

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

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

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

Options :

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

Question Number : 58 Question Id : 34212313664 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I **Expression for water in atmosphere**		**LIST II** **Units**	
A.	Volume mixing Ratio	I.	g H_2O $(m^3$ Air$)^{-1}$
B.	Mass mixing Ratio	II.	g H_2O (kg air$)^{-1}$
C.	Specific humidity	III.	parts per million (ppm)
D.	Mass concentration	IV.	g H_2O (g air$)^{-1}$

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

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

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

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

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

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 58 Question Id : 34212313664 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I **Expression for water in atmosphere**		**LIST II** **Units**	
A.	Volume mixing Ratio	I.	g H_2O $(m^3$ Air$)^{-1}$
B.	Mass mixing Ratio	II.	g H_2O (kg air$)^{-1}$
C.	Specific humidity	III.	parts per million (ppm)
D.	Mass concentration	IV.	g H_2O (g air$)^{-1}$

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

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

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

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

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

Options :

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

Question Number : 59 Question Id : 34212313665 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The absorbed dose of radiation dose in SI unit is expressed as

1. Roentgen

2. Rad

3. Gray

4. Becquerel

Options :

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

Question Number : 59 Question Id : 34212313665 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The absorbed dose of radiation dose in SI unit is expressed as

1. Roentgen
2. Rad
3. Gray
4. Becquerel

Options :

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

Question Number : 60 Question Id : 34212313666 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

What is the concentration of oxygen in the ambient atmosphere (on dry basis) at 0^{o} C and 1 atm pressure in the unit of g/l?

1. ~ 20.95 g/l
2. ~ $9.35x10^{-3}$ g/l
3. ~ 0.299 g/l
4. ~ 16 g/l

Options :

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

Question Number : 60 Question Id : 34212313666 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

What is the concentration of oxygen in the ambient atmosphere (on dry basis) at 0^{o} C and 1 atm pressure in the unit of g/l?

1. ~ 20.95 g/l

2. ~ $9.35x10^{-3}$ g/l

3. ~ 0.299 g/l

4. ~ 16 g/l

Options :

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

Question Number : 61 Question Id : 34212313667 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The essential conditions for photochemical smog formation in ambient atmosphere are _____.

1. SO_2, water vapor, T>25° C

2. Smoke, water vapor, T>25° C

3. VOC, SO_2, T>25° C

4. NO_x , VOC,T>25° C

Options :

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

Question Number : 61 Question Id : 34212313667 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The essential conditions for photochemical smog formation in ambient atmosphere are _____.

1. SO_2, water vapor, T>25° C

2. Smoke, water vapor, T>25° C

3. VOC, SO_2, T>25° C

4. NO_x , VOC,T>25° C

Options :

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

Question Number : 62 Question Id : 34212313668 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Benzene, toluene, ethylbenzene and xylene, (BTEX) are common constituent of gasoline. Vapor pressure of pure liquids are respectively. 0.126, 0.0380, 0.0126 and 0.0117 at 25° C. Assuming equimolar mixture of these liquids obeys Raoult's law, which one of given will exert maximum partial pressure in the mixture?

1. All will exert equally

2. Xylene

3. Benzene

4. Toluene

Options :

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

Question Number : 62 Question Id : 34212313668 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Benzene, toluene, ethylbenzene and xylene, (BTEX) are common constituent of gasoline. Vapor pressure of pure liquids are respectively. 0.126, 0.0380, 0.0126 and 0.0117 at 25° C. Assuming equimolar mixture of these liquids obeys Raoult's law, which one of given will exert maximum partial pressure in the mixture?

1. All will exert equally

2. Xylene

3. Benzene

4. Toluene

Options :

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

Question Number : 63 Question Id : 34212313669 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The process of destabilisation of colloids, by altering surface properties in order to allow the individual particles to combine into larger ones is best referred as

1. Flocculation.

2. Sedimentation.

3. Coagulation.

4. Decoagulation.

Options :

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

Question Number : 63 Question Id : 34212313669 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The process of destabilisation of colloids, by altering surface properties in order to allow the individual particles to combine into larger ones is best referred as

1. Flocculation.

2. Sedimentation.

3. Coagulation.

4. Decoagulation.

Options :

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

Question Number : 64 Question Id : 34212313670 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following pesticide/ insecticide does not contain chlorine atom in its structure?

1. Methoxychlor

2. Mirex

3. Malathion

4. Endosulfan

Options :

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

Question Number : 64 Question Id : 34212313670 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following pesticide/ insecticide does not contain chlorine atom in its structure?

1. Methoxychlor

2. Mirex

3. Malathion

4. Endosulfan

Options :

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

Question Number : 65 Question Id : 34212313671 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the following environmental materials found in collidal size fraction in their increasing order of Cation exchange capacity (c mol (+) kg^{-1})

A. Kaolinite
B. Montmorillonite
C. Quartz
D. Organic matter

Choose the ***most appropriate*** answer from the options given below:

1. D, B, A, C

2. A, C, B, D

3. C, A, B, D

4. B, C, A, D

Options :

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

Question Number : 65 Question Id : 34212313671 Question Type : MCQ Option Shuffling : No

Correct Marks : 2 Wrong Marks : 0

Arrange the following environmental materials found in collidal size fraction in their increasing order of Cation exchange capacity (c mol (+) kg^{-1})

A. Kaolinite
B. Montmorillonite
C. Quartz
D. Organic matter

Choose the ***most appropriate*** answer from the options given below:

1. D, B, A, C

2. A, C, B, D

3. C, A, B, D

4. B, C, A, D

Options :

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

Question Number : 66 Question Id : 34212313672 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following are components of NOy species in atmosphere?

A. HNO_3
B. $ClONO_2$
C. $HOONO_2$
D. NO_3
E. N_2O_5

Choose the ***most appropriate*** answer from the options given below:

1. D and E Only

2. A, C and E Only

3. A, B and C Only

4. A, B, C, D and E

Options :

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

Question Number : 66 Question Id : 34212313672 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following are components of NOy species in atmosphere?

A. HNO_3
B. $ClONO_2$
C. $HOONO_2$
D. NO_3
E. N_2O_5

Choose the ***most appropriate*** answer from the options given below:

1. D and E Only

2. A, C and E Only

3. A, B and C Only

4. A, B, C, D and E

Options :

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

Question Number : 67 Question Id : 34212313673 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following statements are correct?

A. Arsenic is used in wood preservative.
B. CrO_4^{2-} is water soluble.
C. Arsenic is not a metal.
D. Fe III is more soluble compared to Fe II in pure water.
E. PbS and $PbCO_3$ are highly insoluble in water.

Choose the ***most appropriate*** answer from the options given below:

1. A and C Only

2. B, C, D and E Only

3. C and D Only

4. A, B, C and E Only

Options :

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

Question Number : 67 Question Id : 34212313673 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following statements are correct?

A. Arsenic is used in wood preservative.
B. CrO_4^{2-} is water soluble.
C. Arsenic is not a metal.
D. Fe III is more soluble compared to Fe II in pure water.
E. PbS and $PbCO_3$ are highly insoluble in water.

Choose the ***most appropriate*** answer from the options given below:

1. A and C Only

2. B, C, D and E Only

3. C and D Only

4. A, B, C and E Only

Options :

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

Question Number : 68 Question Id : 34212313674 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I Chemical Species		**LIST II Oxidation Number of N/S**	
A.	HS^-	I.	-1
B.	N_2O	II.	-2
C.	S_2^{2-}	III.	+1
D.	R_2NH	IV.	-3

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

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

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

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

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

Options :

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

Question Number : 68 Question Id : 34212313674 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I Chemical Species		**LIST II Oxidation Number of N/S**	
A.	HS^-	I.	-1
B.	N_2O	II.	-2
C.	S_2^{2-}	III.	+1
D.	R_2NH	IV.	-3

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

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

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

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

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

Options :

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

Question Number : 69 Question Id : 34212313675 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I Application		**LIST II Instrument**	
A.	Destructive technique for elemental analysis	I.	XRF
B.	Crystallography	II.	UV-VIS
C.	Non-destructive technique of elemental analysis	III.	XRD
D.	Colorometric technique of elemental analysis	IV.	ICP-OES

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

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

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

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

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

Options :

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

Question Number : 69 Question Id : 34212313675 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I Application		LIST II Instrument	
A.	Destructive technique for elemental analysis	I.	XRF
B.	Crystallography	II.	UV-VIS
C.	Non-destructive technique of elemental analysis	III.	XRD
D.	Colorometric technique of elemental analysis	IV.	ICP-OES

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

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

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

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

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

Options :

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

Question Number : 70 Question Id : 34212313676 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Imagine two population of a gharial, one in the Chambal river and other one in the Ganga. Now imagine two scenarios: A) the populations breed separately, B) Adults of both populations migrate yearly to interbreed. Which scenario would result in a greater loss of genetic diversity, if the Chambal river population is driven to extinction by anthropogenic factors?

1. Scenario A

2. Scenario B

3. No loss of genetic diversity in either scenario

4. Increase in genetic diversity

Options :

1. 1
2. 2

3. 3

4. 4

Question Number : 70 Question Id : 34212313676 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Imagine two population of a gharial, one in the Chambal river and other one in the Ganga. Now imagine two scenarios: A) the populations breed separately, B) Adults of both populations migrate yearly to interbreed. Which scenario would result in a greater loss of genetic diversity, if the Chambal river population is driven to extinction by anthropogenic factors?

1. Scenario A

2. Scenario B

3. No loss of genetic diversity in either scenario

4. Increase in genetic diversity

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 71 Question Id : 34212313677 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Beak depths in two species of Galapasgos Finches, Geospiza Fuliginosa and Geospiza fortis are similar in allopatric populations but have diverged in sympatric populations. This is an example of:

1. Exploitation

2. Semelparity

3. Character displacement

4. Competitive Exclusion

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 71 Question Id : 34212313677 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Beak depths in two species of Galapasgos Finches, Geospiza Fuliginosa and Geospiza fortis are similar in allopatric populations but have diverged in sympatric populations. This is an example of:

1. Exploitation

2. Semelparity

3. Character displacement

4. Competitive Exclusion

Options :

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

Question Number : 72 Question Id : 34212313678 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

A random sample of 180 individuals in a population were captured, marked and released. After few weeks, a second set of 44 individual were collected. Out of these 44 individuals, 7 were marked. The estimated population size would be:

1. 1100

2. 1131

3. 180

4. 44

Options :

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

Question Number : 72 Question Id : 34212313678 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

A random sample of 180 individuals in a population were captured, marked and released. After few weeks, a second set of 44 individual were collected. Out of these 44 individuals, 7 were marked. The estimated population size would be:

1. 1100

2. 1131

3. 180

4. 44

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 73 Question Id : 34212313679 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Primary producers convert only about 1% of energy available to them to Net Primary Production. There is trophic efficiency of 10% for each link in the food chain. What would be the energy available to tertiary consumers in an idealized pyramid of energy when 1,000,000 J of sunlight is available?

1. 10,000 J

2. 1000 J

3. 100 J

4. 10 J

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 73 Question Id : 34212313679 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Primary producers convert only about 1% of energy available to them to Net Primary Production. There is trophic efficiency of 10% for each link in the food chain. What would be the energy available to tertiary consumers in an idealized pyramid of energy when 1,000,000 J of sunlight is available?

1. 10,000 J

2. 1000 J

3. 100 J

4. 10 J

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 74 Question Id : 34212313680 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

If global temperature increases average temperatures on Earth by 4ºC in this century, which biome is most likely to replace tundra in some location as per climograph?

1. Desert

2. Temperate Grassland

3. Northern Coniferous forest

4. Temperate broadleaf forest

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 74 Question Id : 34212313680 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

If global temperature increases average temperatures on Earth by 4ºC in this century, which biome is most likely to replace tundra in some location as per climograph?

1. Desert

2. Temperate Grassland

3. Northern Coniferous forest

4. Temperate broadleaf forest

Options :

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

Question Number : 75 Question Id : 34212313681 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The LOD_{50} values of some pesticides are listed below. Which of the following is most toxic?

1. DDT- 110 mg/ kg

2. Parethion <5 mg/ kg

3. Permethrin 50-500 mg/kg

4. Nicotine 5-50 mg/kg

Options :

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

Question Number : 75 Question Id : 34212313681 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The LOD_{50} values of some pesticides are listed below. Which of the following is most toxic?

1. DDT- 110 mg/ kg

2. Parethion <5 mg/ kg

3. Permethrin 50-500 mg/kg

4. Nicotine 5-50 mg/kg

Options :

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

Question Number : 76 Question Id : 34212313682 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the processes driving an extinction vortex in a small population:

A. Smaller population
B. Inbreeding and genetic drift
C. Loss of genetic variability
D. Lower individual fitness and population adaptability
E. Lower reproduction and higher mortality

Choose the ***most appropriate*** answer from the options given below:

1. A, B, C, D, E

2. B, C, D, E, A

3. E, D, C, B, A

4. C, B, A, E, D

Options :

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

Question Number : 76 Question Id : 34212313682 Question Type : MCQ Option Shuffling : No

Correct Marks : 2 Wrong Marks : 0

Arrange the processes driving an extinction vortex in a small population:

A. Smaller population
B. Inbreeding and genetic drift
C. Loss of genetic variability
D. Lower individual fitness and population adaptability
E. Lower reproduction and higher mortality

Choose the ***most appropriate*** answer from the options given below:

1. A, B, C, D, E

2. B, C, D, E, A

3. E, D, C, B, A

4. C, B, A, E, D

Options :

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

Question Number : 77 Question Id : 34212313683 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Invasive plant species belonging family Asteraceae are:

A. *Parthenium hysterophorus*
B. *Chromolaena odorata*
C. *Mikania micrantha*
D. *Salvinia molesta*
E. *Lantana camara*

Choose the ***most appropriate*** answer from the options given below:

1. A, B and C Only

2. C, D and E Only

3. A, C and E Only

4. B, C and D Only

Options :

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

Question Number : 77 Question Id : 34212313683 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Invasive plant species belonging family Asteraceae are:

A. *Parthenium hysterophorus*
B. *Chromolaena odorata*
C. *Mikania micrantha*
D. *Salvinia molesta*
E. *Lantana camara*

Choose the ***most appropriate*** answer from the options given below:

1. A, B and C Only

2. C, D and E Only

3. A, C and E Only

4. B, C and D Only

Options :

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

Question Number : 78 Question Id : 34212313684 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Mac Arthor and Wilson's island equilibrium model represents a balance between:

A. Size of island
B. Distance from the mainland
C. Rate of species immigration
D. Rate of species extinction
E. Species area curve

Choose the ***most appropriate*** answer from the options given below:

1. A and B Only

2. B and C Only

3. C and D Only

4. D and E Only

Options :

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

Question Number : 78 Question Id : 34212313684 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Mac Arthor and Wilson's island equilibrium model represents a balance between:

A. Size of island
B. Distance from the mainland
C. Rate of species immigration
D. Rate of species extinction
E. Species area curve

Choose the ***most appropriate*** answer from the options given below:

1. A and B Only

2. B and C Only

3. C and D Only

4. D and E Only

Options :

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

Question Number : 79 Question Id : 34212313685 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I Defensive Adaption		**LIST II Examples**	
A.	Mechanical Defense	I.	Octopus
B.	Chemical defense	II.	Hedgehog
C.	Aposematic coloration	III.	Bushcrickets
D.	Cryptic coloration	IV.	Cinnabar Moth

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

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

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

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

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

Options :

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

Question Number : 79 Question Id : 34212313685 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I Defensive Adaption		**LIST II Examples**	
A.	Mechanical Defense	I.	Octopus
B.	Chemical defense	II.	Hedgehog
C.	Aposematic coloration	III.	Bushcrickets
D.	Cryptic coloration	IV.	Cinnabar Moth

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

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

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

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

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

Options :

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

Question Number : 80 Question Id : 34212313686 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The wind blowing parallel to the isobars and at right angle to the pressure gradient is called

1. Geostrophic wind

2. Planetary wind

3. Anti trade wind

4. Prevailing wind

Options :

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

Question Number : 80 Question Id : 34212313686 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The wind blowing parallel to the isobars and at right angle to the pressure gradient is called

1. Geostrophic wind

2. Planetary wind

3. Anti trade wind

4. Prevailing wind

Options :

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

Question Number : 81 Question Id : 34212313687 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The intrusive igneous rock that contains unusually large mineral grains is called

1. Basalt

2. Rhyolite

3. Pegmatite

4. Obsidian

Options :

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

Question Number : 81 Question Id : 34212313687 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The intrusive igneous rock that contains unusually large mineral grains is called

1. Basalt
2. Rhyolite
3. Pegmatite
4. Obsidian

Options :

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

Question Number : 82 Question Id : 34212313688 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The process in which concentrated shells of rock may spall from the outside of an outcrop or a boulder is known as

1. Leaching
2. Exfoliation
3. Frost wedging
4. Disintegration

Options :

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

Question Number : 82 Question Id : 34212313688 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The process in which concentrated shells of rock may spall from the outside of an outcrop or a boulder is known as

1. Leaching

2. Exfoliation

3. Frost wedging

4. Disintegration

Options :

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

Question Number : 83 Question Id : 34212313689 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the sedimentary structures in order of their formation under increasing velocity of water.

A. Lower plane bed
B. Small scale ripple marks
C. Large scale ripple marks
D. Upper plane bed
E. Anti dunes

Choose the ***most appropriate*** answer from the options given below:

1. E, D, C, B, A

2. B, C, D, A, E

3. C, A, E, D, B

4. A, B, C, D, E

Options :

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

Question Number : 83 Question Id : 34212313689 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the sedimentary structures in order of their formation under increasing velocity of water.

A. Lower plane bed
B. Small scale ripple marks
C. Large scale ripple marks
D. Upper plane bed
E. Anti dunes

Choose the ***most appropriate*** answer from the options given below:

1. E, D, C, B, A

2. B, C, D, A, E

3. C, A, E, D, B

4. A, B, C, D, E

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 84 Question Id : 34212313690 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Darcy's law in a stream is dependent on

A. Cross sectional area, hydraulic gradient, coefficient of permeability
B. Hydraulic gradient, coefficient of permeability, gravitational force
C. Coefficient of permeability, Frictional force
D. Gravitational force, Frictional force
E. Cross sectional area, Gravitational force

Choose the ***most appropriate*** answer from the options given below:

1. A Only

2. A and B Only

3. A, B and C Only

4. C, D and E Only

Options :

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

Question Number : 84 Question Id : 34212313690 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Darcy's law in a stream is dependent on

A. Cross sectional area, hydraulic gradient, coefficient of permeability
B. Hydraulic gradient, coefficient of permeability, gravitational force
C. Coefficient of permeability, Frictional force
D. Gravitational force, Frictional force
E. Cross sectional area, Gravitational force

Choose the ***most appropriate*** answer from the options given below:

1. A Only

2. A and B Only

3. A, B and C Only

4. C, D and E Only

Options :

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

Question Number : 85 Question Id : 34212313691 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following minerals are formed in low grade metamorphism?

A. Muscovite
B. Garnet
C. Andalusite
D. Kyanite
E. Actinolite

Choose the ***most appropriate*** answer from the options given below:

1. A, C and E Only

2. A, B and C Only

3. B, C and E Only

4. B, D and E Only

Options :

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

Question Number : 85 Question Id : 34212313691 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following minerals are formed in low grade metamorphism?

A. Muscovite
B. Garnet
C. Andalusite
D. Kyanite
E. Actinolite

Choose the ***most appropriate*** answer from the options given below:

1. A, C and E Only

2. A, B and C Only

3. B, C and E Only

4. B, D and E Only

Options :

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

Question Number : 86 Question Id : 34212313692 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I		LIST II	
A.	High temperature igneous rock	I.	Granulite
B.	High grade metamorphic Rock	II.	Arkose
C.	Clastic sedimentary rock	III.	Dolomite
D.	Non-clastic sedimentary rock	IV.	Komatiite

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

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

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

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

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

Options :

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

Question Number : 86 Question Id : 34212313692 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I		**LIST II**	
A.	High temperature igneous rock	I.	Granulite
B.	High grade metamorphic Rock	II.	Arkose
C.	Clastic sedimentary rock	III.	Dolomite
D.	Non-clastic sedimentary rock	IV.	Komatiite

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

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

Options :

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

Question Number : 87 Question Id : 34212313693 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I		LIST II	
A.	Glacial Landform	I.	Ventifacts
B.	Fluvial Landform	II.	Hummocky Cross bedding
C.	Aeolian Landform	III.	Natural Levee
D.	Storm generated landform	IV.	Drumlin

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

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

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

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

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

Options :

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

Question Number : 87 Question Id : 34212313693 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I		LIST II	
A.	Glacial Landform	I.	Ventifacts
B.	Fluvial Landform	II.	Hummocky Cross bedding
C.	Aeolian Landform	III.	Natural Levee
D.	Storm generated landform	IV.	Drumlin

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

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

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

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

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

Options :

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

Question Number : 88 Question Id : 34212313694 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

In biodiesel making, ____ containing sodium hydroxide (lye) solution is mixed with vegetable oil.

1. Glycerol
2. Methanol
3. Ethanol
4. Xylene

Options :

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

Question Number : 88 Question Id : 34212313694 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

In biodiesel making, ____ containing sodium hydroxide (lye) solution is mixed with vegetable oil.

1. Glycerol
2. Methanol
3. Ethanol
4. Xylene

Options :

1. 1
2. 2
3. 3

4. 4

Question Number : 89 Question Id : 34212313695 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which one of the following is a thorium mineral used as atomic fuel?

1. Pitchblende
2. Monazite
3. Apatite
4. Malachite

Options :

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

Question Number : 89 Question Id : 34212313695 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which one of the following is a thorium mineral used as atomic fuel?

1. Pitchblende
2. Monazite
3. Apatite
4. Malachite

Options :

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

Question Number : 90 Question Id : 34212313696 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which one of the following coalfields belong to lignite type coal deposit?

1. Raniganj, West Bengal

2. Singarauli, Madhya Pradesh

3. Makum, Assam

4. Talcher, Odisha

Options :

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

Question Number : 90 Question Id : 34212313696 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which one of the following coalfields belong to lignite type coal deposit?

1. Raniganj, West Bengal

2. Singarauli, Madhya Pradesh

3. Makum, Assam

4. Talcher, Odisha

Options :

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

Question Number : 91 Question Id : 34212313697 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which one of the following acts as a cap rock to retain oil in the reservoir rock?

1. Sandstone

2. Jointed limestone

3. Shale

4. Conglomerate

Options :

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

Question Number : 91 Question Id : 34212313697 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which one of the following acts as a cap rock to retain oil in the reservoir rock?

1. Sandstone

2. Jointed limestone

3. Shale

4. Conglomerate

Options :

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

Question Number : 92 Question Id : 34212313698 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which one of the following states in India has the maximum wind power potential at 120 m above ground level as per the recent assessment?

1. Rajasthan

2. Gujarat

3. Karnataka

4. Tamil Nadu

Options :

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

Question Number : 92 Question Id : 34212313698 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which one of the following states in India has the maximum wind power potential at 120 m above ground level as per the recent assessment?

1. Rajasthan

2. Gujarat

3. Karnataka

4. Tamil Nadu

Options :

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

Question Number : 93 Question Id : 34212313699 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the following in increasing order of O/C atomic ratio of a coalification path.

A. Vitrinite
B. Huminite
C. Lignin
D. Wood
E. Cellulose

Choose the ***most appropriate*** answer from the options given below:

1. A, B, C, D, E

2. B, C, D, E, A

3. D, E, B, C, A

4. E, D, C, B, A

Options :

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

Question Number : 93 Question Id : 34212313699 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the following in increasing order of O/C atomic ratio of a coalification path.

A. Vitrinite
B. Huminite
C. Lignin
D. Wood
E. Cellulose

Choose the ***most appropriate*** answer from the options given below:

1. A, B, C, D, E

2. B, C, D, E, A

3. D, E, B, C, A

4. E, D, C, B, A

Options :

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

Question Number : 94 Question Id : 34212313700 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the following process from initial to last in formation of a petroleum deposite.

A. Accumulation
B. Generation
C. Seepage
D. Primary migration
E. Secondary migration

Choose the ***most appropriate*** answer from the options given below:

1. A, B, C, D, E

2. B, C, A, D, E

3. B, D, E, A, C

4. A, D, B, E, C

Options :

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

Question Number : 94 Question Id : 34212313700 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the following process from initial to last in formation of a petroleum deposite.

A. Accumulation
B. Generation
C. Seepage
D. Primary migration
E. Secondary migration

Choose the ***most appropriate*** answer from the options given below:

1. A, B, C, D, E

2. B, C, A, D, E

3. B, D, E, A, C

4. A, D, B, E, C

Options :

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

Question Number : 95 Question Id : 34212313701 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following determines power capacity of a hydropower plant?

A. Length of penstock pipe
B. Flow rate
C. Size of reservoir
D. Head
E. Length from intake to forebay

Choose the ***most appropriate*** answer from the options given below:

1. A and C Only

2. B and D Only

3. C and E Only

4. A and E Only

Options :

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

Question Number : 95 Question Id : 34212313701 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following determines power capacity of a hydropower plant?

A. Length of penstock pipe
B. Flow rate
C. Size of reservoir
D. Head
E. Length from intake to forebay

Choose the ***most appropriate*** answer from the options given below:

1. A and C Only

2. B and D Only

3. C and E Only

4. A and E Only

Options :

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

Question Number : 96 Question Id : 34212313702 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following forms of sulfur are found in coal?

A. Native sulfur
B. Organic sulfur
C. Pyritic sulfur
D. Sulfate minerals

Choose the ***most appropriate*** answer from the options given below:

1. A and B Only

2. B and C Only

3. A, C and D Only

4. B, C and D Only

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 96 Question Id : 34212313702 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following forms of sulfur are found in coal?

A. Native sulfur
B. Organic sulfur
C. Pyritic sulfur
D. Sulfate minerals

Choose the ***most appropriate*** answer from the options given below:

1. A and B Only

2. B and C Only

3. A, C and D Only

4. B, C and D Only

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 97 Question Id : 34212313703 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I Energy resource		**LIST II Age of geological association**	
A.	Gas hydrates	I.	Paleozoic
B.	Coal deposit	II.	Precambrian
C.	Petroleum deposits	III.	Cenozoic
D.	Uranium ores	IV.	Mesozoic

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

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

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

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

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

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 97 Question Id : 34212313703 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I Energy resource		**LIST II Age of geological association**	
A.	Gas hydrates	I.	Paleozoic
B.	Coal deposit	II.	Precambrian
C.	Petroleum deposits	III.	Cenozoic
D.	Uranium ores	IV.	Mesozoic

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

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

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

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

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

Options :

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

Question Number : 98 Question Id : 34212313704 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which one of the following is a green house gas and a criteria air pollutant under national ambient air quality standards but is not directly emitted in troposphere?

1. N_2O

2. CO_2

3. SF_6

4. O_3

Options :

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

Question Number : 98 Question Id : 34212313704 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which one of the following is a green house gas and a criteria air pollutant under national ambient air quality standards but is not directly emitted in troposphere?

1. N_2O

2. CO_2

3. SF_6

4. O_3

Options :

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

Question Number : 99 Question Id : 34212313705 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following air pollution-control/particle-collection devices uses the force of gravity to aid in collection of particles by exploiting their terminal velocity?

1. Electrostatic precipitators

2. Elutriators

3. Bag houses

4. Super saturators

Options :

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

Question Number : 99 Question Id : 34212313705 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following air pollution-control/particle-collection devices uses the force of gravity to aid in collection of particles by exploiting their terminal velocity?

1. Electrostatic precipitators

2. Elutriators

3. Bag houses

4. Super saturators

Options :

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

Question Number : 100 Question Id : 34212313706 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Calculate residence time of chemical species in atmosphere having a mixing ratio of one parts per billion (1ppb) by mass.
[given: Total flux of species by natural and anthropogenic sources is 200 x 10^{12} g/yr. Mass of atmosphere is 4x10^{21} g]

1. ~ 0.1 week

2. ~ 1 week

3. ~ 10 week

4. ~ 50 week

Options :

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

Question Number : 100 Question Id : 34212313706 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Calculate residence time of chemical species in atmosphere having a mixing ratio of one parts per billion (1ppb) by mass.
[given: Total flux of species by natural and anthropogenic sources is 200 x 10^{12} g/yr. Mass of atmosphere is 4x10^{21} g]

1. ~ 0.1 week

2. ~ 1 week

3. ~ 10 week

4. ~ 50 week

Options :

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

Question Number : 101 Question Id : 34212313707 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Chlorination is most common disinfection process in swimming pools. Which of the chemical causes respiratory and eye irritation around swimming pools immediately after disinfection process?

1. Hypochlorous acid

2. Chlorine gas

3. Chloramines

4. Chlorine dioxide gas

Options :

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

Question Number : 101 Question Id : 34212313707 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Chlorination is most common disinfection process in swimming pools. Which of the chemical causes respiratory and eye irritation around swimming pools immediately after disinfection process?

1. Hypochlorous acid

2. Chlorine gas

3. Chloramines

4. Chlorine dioxide gas

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 102 Question Id : 34212313708 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Choose the correct statement on acidic precipitation.

A. Acidification of lake water releases highly toxic Al^{3+} to the water
B. Deciduous foliage tends to increase acidity
C. Coniferous foliage tends to yield runoff that is more acidic than the precipitation
D. Lakes with granitic bedrock offer little buffering to acidic precipitation
E. Thin and impermeable soils helps in better buffering to acidic precipitaion

Choose the ***most appropriate*** answer from the options given below:

1. A, B, C and D Only

2. A, B, D and E Only

3. A, C and D Only

4. A, C, D and E Only

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 102 Question Id : 34212313708 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Choose the correct statement on acidic precipitation.

A. Acidification of lake water releases highly toxic Al^{3+} to the water
B. Deciduous foliage tends to increase acidity
C. Coniferous foliage tends to yield runoff that is more acidic than the precipitation
D. Lakes with granitic bedrock offer little buffering to acidic precipitation
E. Thin and impermeable soils helps in better buffering to acidic precipitaion

Choose the ***most appropriate*** answer from the options given below:

1. A, B, C and D Only

2. A, B, D and E Only

3. A, C and D Only

4. A, C, D and E Only

Options :

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

Question Number : 103 Question Id : 34212313709 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Choose the correct statements:

A. BOD curve in lake water follows 1st order kinetic
B. Ultimate BOD increases in direct proportion to concentration of degradable organic matter
C. Oxygen depletion in lake water is related to both ultimate BOD and the rate constant (R)
D. Numerical value of BOD rate constant does not depends on water temperature
E. Numerical value of BOD rate constant does not depend on nature of the waste

Choose the ***most appropriate*** answer from the options given below:

1. A, B and D Only

2. B, C, D and E Only

3. A, B and C Only

4. A, B, C and D Only

Options :

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

Question Number : 103 Question Id : 34212313709 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Choose the correct statements:

A. BOD curve in lake water follows 1st order kinetic
B. Ultimate BOD increases in direct proportion to concentration of degradable organic matter
C. Oxygen depletion in lake water is related to both ultimate BOD and the rate constant (R)
D. Numerical value of BOD rate constant does not depends on water temperature
E. Numerical value of BOD rate constant does not depend on nature of the waste

Choose the ***most appropriate*** answer from the options given below:

1. A, B and D Only

2. B, C, D and E Only

3. A, B and C Only

4. A, B, C and D Only

Options :

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

Question Number : 104 Question Id : 34212313710 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Choose the correct statements about ozone in stratosphere.

A. Rate of O_3 production is highest at equator and at about 40 km height.
B. Maximum O_3 concentration at equator occur at about 25 km as opposed to 40 km height.
C. At poles, maximum O_3 production occur at altitude even higher then those over equator.
D. Regions of highest O_3 concentration do not coincide with location of highest rate of O_3 formation
E. Catalytic destruction of O_3 is more at Artic compared to Antartica due to more CFCs in northern hemisphere.

Choose the ***most appropriate*** answer from the options given below:

1. A, C and D Only

2. B, D and E Only

3. A, B, C and D Only

4. A, D and E Only

Options :

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

Question Number : 104 Question Id : 34212313710 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Choose the correct statements about ozone in stratosphere.

A. Rate of O_3 production is highest at equator and at about 40 km height.
B. Maximum O_3 concentration at equator occur at about 25 km as opposed to 40 km height.
C. At poles, maximum O_3 production occur at altitude even higher then those over equator.
D. Regions of highest O_3 concentration do not coincide with location of highest rate of O_3 formation
E. Catalytic destruction of O_3 is more at Artic compared to Antartica due to more CFCs in northern hemisphere.

Choose the ***most appropriate*** answer from the options given below:

1. A, C and D Only

2. B, D and E Only

3. A, B, C and D Only

4. A, D and E Only

Options :

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

Question Number : 105 Question Id : 34212313711 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

	LIST I Conditions		**LIST II Plume Behavior**
A.	Inversion below, lapse aloft	I.	Fumigation
B.	Strong lapse condition	II.	Lofting
C.	Lapse below, Inversion aloft	III.	Looping
D.	Weak lapse below, Inversion aloft	IV.	Trapping

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

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

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

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

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

Options :

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

Question Number : 105 Question Id : 34212313711 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I Conditions		**LIST II Plume Behavior**	
A.	Inversion below, lapse aloft	I.	Fumigation
B.	Strong lapse condition	II.	Lofting
C.	Lapse below, Inversion aloft	III.	Looping
D.	Weak lapse below, Inversion aloft	IV.	Trapping

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

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

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

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

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

Options :

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

Question Number : 106 Question Id : 34212313712 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the following soil types in increasing order of percentage organic matter content.

A. Forest soils (Surface horizons)
B. Temperate Agriculture Soils
C. Peat Soils
D. Tropical agricultural soils

Choose the ***most appropriate*** answer from the options given below:

1. A, B, C, D

2. D, B, A, C

3. B, D, A, C

4. B, D, C, A

Options :

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

Question Number : 106 Question Id : 34212313712 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the following soil types in increasing order of percentage organic matter content.

A. Forest soils (Surface horizons)
B. Temperate Agriculture Soils
C. Peat Soils
D. Tropical agricultural soils

Choose the ***most appropriate*** answer from the options given below:

1. A, B, C, D

2. D, B, A, C

3. B, D, A, C

4. B, D, C, A

Options :

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

Question Number : 107 Question Id : 34212313713 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Noise coming out during dentists drilling would be an appropriate example of ____

1. Steady state noise

2. Intermittent noise

3. Impulse noise

4. Impact noise

Options :

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

Question Number : 107 Question Id : 34212313713 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Noise coming out during dentists drilling would be an appropriate example of ____

1. Steady state noise
2. Intermittent noise
3. Impulse noise
4. Impact noise

Options :

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

Question Number : 108 Question Id : 34212313714 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The solid waste and the daily cover placed in a landfill during one operational period forms a ____

1. Face
2. Cell
3. Benche
4. Lift

Options :

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

Question Number : 108 Question Id : 34212313714 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The solid waste and the daily cover placed in a landfill during one operational period forms a ——

1. Face
2. Cell
3. Benche
4. Lift

Options :

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

Question Number : 109 Question Id : 34212313715 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following is a disadvantage of daily truck routing method of solid waste collection?

1. The route size can be adjusted for load
2. It provides an incentive to crew for getting it done early
3. Variability in load on day to day basis
4. Homeowner knows when the refuse will be picked up

Options :

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

Question Number : 109 Question Id : 34212313715 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following is a disadvantage of daily truck routing method of solid waste collection?

1. The route size can be adjusted for load

2. It provides an incentive to crew for getting it done early

3. Variability in load on day to day basis

4. Homeowner knows when the refuse will be picked up

Options :

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

Question Number : 110 Question Id : 34212313716 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following is not a possible option for perpetual storage of hazardous waste ?

1. Surface empoundments

2. Landfill

3. Ocean and atmospheric assimilation

4. Waste piles

Options :

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

Question Number : 110 Question Id : 34212313716 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following is not a possible option for perpetual storage of hazardous waste ?

1. Surface empoundments

2. Landfill

3. Ocean and atmospheric assimilation

4. Waste piles

Options :

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

Question Number : 111 Question Id : 34212313717 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

A natural or human made depression into which solid waste are dumped, compressed and daily covered with a layer of dirt are close example of

1. Dumps

2. Sanitary landfills

3. Secured landfills

4. Compost pit

Options :

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

Question Number : 111 Question Id : 34212313717 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

A natural or human made depression into which solid waste are dumped, compressed and daily covered with a layer of dirt are close example of

1. Dumps

2. Sanitary landfills

3. Secured landfills

4. Compost pit

Options :

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

Question Number : 112 Question Id : 34212313718 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the following components of municipal solid waste and fossil fuel in increasing order of their higher heat value (HHV) in kJ/ kg units.

A. Mixed paper
B. Rubber
C. Mixed plastics
D. Leather
E. Mixed green-yard waste

Choose the ***most appropriate*** answer from the options given below:

1. E, A, B, C, D

2. E, A, D, C, B

3. E, D, A, B, C

4. E, A, D, B, C

Options :

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

Question Number : 112 Question Id : 34212313718 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the following components of municipal solid waste and fossil fuel in increasing order of their higher heat value (HHV) in kJ/ kg units.

A. Mixed paper
B. Rubber
C. Mixed plastics
D. Leather
E. Mixed green-yard waste

Choose the ***most appropriate*** answer from the options given below:

1. E, A, B, C, D

2. E, A, D, C, B

3. E, D, A, B, C

4. E, A, D, B, C

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 113 Question Id : 34212313719 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the following types of solid waste in increasing order of % moisture content.

A. Rubbish
B. Trash
C. Garbage
D. Refuse
E. Animal solids and organic waste

Choose the ***most appropriate*** answer from the options given below:

1. B, D, A, C, E

2. B, A, D, C, E

3. B, A, D, E, C

4. B, D, A, E, C

Options :

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

Question Number : 113 Question Id : 34212313719 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the following types of solid waste in increasing order of % moisture content.

A. Rubbish
B. Trash
C. Garbage
D. Refuse
E. Animal solids and organic waste

Choose the ***most appropriate*** answer from the options given below:

1. B, D, A, C, E

2. B, A, D, C, E

3. B, A, D, E, C

4. B, D, A, E, C

Options :

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

Question Number : 114 Question Id : 34212313720 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Choose the correct statements about compost

A. Compost is a humus like material.
B. Biodegradation process during composting is endothermic.
C. Compost improves soil structure.
D. Compost decreases moisture holding capacity.
E. Compost increases buffering capacity of soils.

Choose the ***most appropriate*** answer from the options given below:

1. A, B, C and E Only

2. A, B, C and D Only

3. A, C and E Only

4. A, B, C, D and E

Options :

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

Question Number : 114 Question Id : 34212313720 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Choose the correct statements about compost

A. Compost is a humus like material.
B. Biodegradation process during composting is endothermic.
C. Compost improves soil structure.
D. Compost decreases moisture holding capacity.
E. Compost increases buffering capacity of soils.

Choose the ***most appropriate*** answer from the options given below:

1. A, B, C and E Only

2. A, B, C and D Only

3. A, C and E Only

4. A, B, C, D and E

Options :

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

Question Number : 115 Question Id : 34212313721 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following are not listed as hazardous waste as per RCRA guidelines?

A. Fly ash
B. Commercial chemical product DDT
C. Arsenic treated wood
D. E-waste
E. Used chloroflurocarbon Referigerants

Choose the ***most appropriate*** answer from the options given below:

1. B, C and D Only

2. A, B, C and D Only

3. B, C, D and E Only

4. A, C and E Only

Options :

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

Question Number : 115 Question Id : 34212313721 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following are not listed as hazardous waste as per RCRA guidelines?

A. Fly ash
B. Commercial chemical product DDT
C. Arsenic treated wood
D. E-waste
E. Used chloroflurocarbon Referigerants

Choose the ***most appropriate*** answer from the options given below:

1. B, C and D Only

2. A, B, C and D Only

3. B, C, D and E Only

4. A, C and E Only

Options :

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

Question Number : 116 Question Id : 34212313722 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I Plastic		**LIST II Application**	
A.	PETE	I.	Straw
B.	HDPE	II.	Pharmaceutical bottles
C.	PP	III.	Soft drink bottles
D.	PS	IV.	Milk bottles

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

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

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

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

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

Options :

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

Question Number : 116 Question Id : 34212313722 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I Plastic		**LIST II Application**	
A.	PETE	I.	Straw
B.	HDPE	II.	Pharmaceutical bottles
C.	PP	III.	Soft drink bottles
D.	PS	IV.	Milk bottles

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

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

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

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

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

Options :

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

Question Number : 117 Question Id : 34212313723 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

"The formalised systematic and comprehensive process of evaluating the environment impacts of a policy, programme plan as its alternatives as well as using the findings in publicly accontable decision making" refers to

1. Comprehensive Impact Assessment (CIA)

2. Environmental Impact Assessment (EIA)

3. Interpreted Impact Assessment

4. Strategic Environmental Assessment

Options :

1. 1
2. 2
3. 3

4. 4

Question Number : 117 Question Id : 34212313723 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

"The formalised systematic and comprehensive process of evaluating the environment impacts of a policy, programme plan as its alternatives as well as using the findings in publicly accontable decision making" refers to

1. Comprehensive Impact Assessment (CIA)

2. Environmental Impact Assessment (EIA)

3. Interpreted Impact Assessment

4. Strategic Environmental Assessment

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 118 Question Id : 34212313724 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following is portal by MoEFCC, Government of India to automate the process of Environmental Clearance?

1. EIACP

2. ENVIS

3. e Green watch

4. PARIVESH

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 118 Question Id : 34212313724 Question Type : MCQ Option Shuffling : No

Correct Marks : 2 Wrong Marks : 0

Which of the following is portal by MoEFCC, Government of India to automate the process of Environmental Clearance?

1. EIACP

2. ENVIS

3. e Green watch

4. PARIVESH

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 119 Question Id : 34212313725 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Which of the following states that "EIA as a national instrument shall be undertaken for the proposed activities that are likely to have significant adverse impact on the environment and are subject to a decision of a competent national authority"

1. Principle 17 of Rio Declaration (1992)

2. Article 14 of Convention on Biological Diversity (1993)

3. Article 10 of Environment (Protection) Act (1986)

4. Principle 18 of United State Environment Policy Act (1969)

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 119 Question Id : 34212313725 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Which of the following states that "EIA as a national instrument shall be undertaken for the proposed activities that are likely to have significant adverse impact on the environment and are subject to a decision of a competent national authority"

1. Principle 17 of Rio Declaration (1992)

2. Article 14 of Convention on Biological Diversity (1993)

3. Article 10 of Environment (Protection) Act (1986)

4. Principle 18 of United State Environment Policy Act (1969)

Options :

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

Question Number : 120 Question Id : 34212313726 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

People's Biodiversity Register (PBR) as per Biological Diversity Act 2002, is one of the main functions of

1. Biodiversity Management Committee (BMC)

2. State Biodiversity Board (SBB)

3. National Biodiversity Authority (NBA)

4. Village and Urban Local Bodies (V/ULB)

Options :

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

Question Number : 120 Question Id : 34212313726 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

People's Biodiversity Register (PBR) as per Biological Diversity Act 2002, is one of the main functions of

1. Biodiversity Management Committee (BMC)

2. State Biodiversity Board (SBB)

3. National Biodiversity Authority (NBA)

4. Village and Urban Local Bodies (V/ULB)

Options :

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

Question Number : 121 Question Id : 34212313727 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the following classes in increasing order of percent geographical area as reported in India state of Forest Report- (2021)

A. Moderately Dense Forest
B. Open Forest
C. Scrub
D. Tree Cover
E. Very Dense Forest

Choose the ***most appropriate*** answer from the options given below:

1. D, C, E, A, B

2. C, D, E, B, A

3. E, C, D, B, A

4. C, D, E, A, B

Options :

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

Question Number : 121 Question Id : 34212313727 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the following classes in increasing order of percent geographical area as reported in India state of Forest Report- (2021)

A. Moderately Dense Forest
B. Open Forest
C. Scrub
D. Tree Cover
E. Very Dense Forest

Choose the ***most appropriate*** answer from the options given below:

1. D, C, E, A, B

2. C, D, E, B, A

3. E, C, D, B, A

4. C, D, E, A, B

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 122 Question Id : 34212313728 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the following steps in order of execution of Environmental Impact Assessment (EIA) process.

A. Analysis
B. Decision Making
C. EIA Reporting
D. Mitigation
E. Review

Choose the ***most appropriate*** answer from the options given below:

1. E, D, A, B, C

2. C, A, D, B, E

3. A, D, C, E, B

4. A, C, B, E, D

Options :

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

Question Number : 122 Question Id : 34212313728 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the following steps in order of execution of Environmental Impact Assessment (EIA) process.

A. Analysis
B. Decision Making
C. EIA Reporting
D. Mitigation
E. Review

Choose the ***most appropriate*** answer from the options given below:

1. E, D, A, B, C

2. C, A, D, B, E

3. A, D, C, E, B

4. A, C, B, E, D

Options :

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

Question Number : 123 Question Id : 34212313729 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following categories of projects necessarily have to carry out EIA studies along with the 'Public Hearing' as per the MoEFCC, Government of India?

A. Category A
B. Category B
C. Category B1
D. Category B2
E. Category A1

Choose the ***most appropriate*** answer from the options given below:

1. A and B Only

2. A and C Only

3. A, B and D Only

4. C, D and E Only

Options :

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

Question Number : 123 Question Id : 34212313729 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following categories of projects necessarily have to carry out EIA studies along with the 'Public Hearing' as per the MoEFCC, Government of India?

A. Category A
B. Category B
C. Category B1
D. Category B2
E. Category A1

Choose the ***most appropriate*** answer from the options given below:

1. A and B Only

2. A and C Only

3. A, B and D Only

4. C, D and E Only

Options :

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

Question Number : 124 Question Id : 34212313730 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following protocols are linked to convention on Biological Diversity?

A. Cartagena
B. Kigali
C. Nagoya
D. Rotterdam
E. UN-REDD

Choose the ***most appropriate*** answer from the options given below:

1. A and C Only

2. B and D Only

3. C and E Only

4. A and D Only

Options :

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

Question Number : 124 Question Id : 34212313730 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following protocols are linked to convention on Biological Diversity?

A. Cartagena
B. Kigali
C. Nagoya
D. Rotterdam
E. UN-REDD

Choose the ***most appropriate*** answer from the options given below:

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

Options :

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

Question Number : 125 Question Id : 34212313731 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I ISO series		**LIST II Standards**	
A.	ISO 14030	I.	Life Cycle Assessment
B.	ISO 14040	II.	Green Bonds
C.	ISO 14050	III.	Principles, requirements and guidelines
D.	ISO 14090	IV.	Vocabulary terms and definitions

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

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

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

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

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

Options :

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

Question Number : 125 Question Id : 34212313731 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I ISO series		LIST II Standards	
A.	ISO 14030	I.	Life Cycle Assessment
B.	ISO 14040	II.	Green Bonds
C.	ISO 14050	III.	Principles, requirements and guidelines
D.	ISO 14090	IV.	Vocabulary terms and definitions

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

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

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

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

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

Options :

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

Question Number : 126 Question Id : 34212313732 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The standard error of mean for a normally distributed data on 256 observations was estimated as 0.1. What would be possible limits for covering 95% of the observations if the value of mean was 60.

1. (55.2 - 62.8)

2. (56.8 - 63.2)

3. (58.8 - 65.2)

4. (60.0 - 63.0)

Options :

1. 1
2. 2
3. 3

4. 4

Question Number : 126 Question Id : 34212313732 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The standard error of mean for a normally distributed data on 256 observations was estimated as 0.1. What would be possible limits for covering 95% of the observations if the value of mean was 60.

1. (55.2 - 62.8)

2. (56.8 - 63.2)

3. (58.8 - 65.2)

4. (60.0 - 63.0)

Options :

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

Question Number : 127 Question Id : 34212313733 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Performing one way Analysis of variance (ANOVA) involves different steps. Arrange the following steps in the correct sequence for performing one way ANOVA

A. Calculate the mean sum of squares
B. Tabulate the data available
C. Partition the sources of variances into two parts (between and within)
D. Calculate the degrees of freedom for different sources of variances
E. Calculate the variance Ratio (F-statistic)

Choose the ***most appropriate*** answer from the options given below:

1. B, C, D, A, E

2. B, D, C, E, A

3. B, A, D, C, E

4. B, C, A, D, E

Options :

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

Question Number : 127 Question Id : 34212313733 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Performing one way Analysis of variance (ANOVA) involves different steps. Arrange the following steps in the correct sequence for performing one way ANOVA

A. Calculate the mean sum of squares
B. Tabulate the data available
C. Partition the sources of variances into two parts (between and within)
D. Calculate the degrees of freedom for different sources of variances
E. Calculate the variance Ratio (F-statistic)

Choose the ***most appropriate*** answer from the options given below:

1. B, C, D, A, E

2. B, D, C, E, A

3. B, A, D, C, E

4. B, C, A, D, E

Options :

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

Question Number : 128 Question Id : 34212313734 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following statements are TRUE with respect to the application of t-distribution for testing of Hypothesis

A. It is a Non-parametric test
B. It tests whether sample mean differs significantly from the population mean
C. It tests the significance of an observed correlation coefficient
D. It tests the significance of an observed covariation
E. It tests the significance of an observed regression coefficient

Choose the ***most appropriate*** answer from the options given below:

1. A and E Only

2. B and D Only

3. B, D and E Only

4. B, C and E Only

Options :

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

Question Number : 128 Question Id : 34212313734 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following statements are TRUE with respect to the application of t-distribution for testing of Hypothesis

A. It is a Non-parametric test
B. It tests whether sample mean differs significantly from the population mean
C. It tests the significance of an observed correlation coefficient
D. It tests the significance of an observed covariation
E. It tests the significance of an observed regression coefficient

Choose the ***most appropriate*** answer from the options given below:

1. A and E Only

2. B and D Only

3. B, D and E Only

4. B, C and E Only

Options :

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

Question Number : 129 Question Id : 34212313735 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

which of the following statements are TRUE for the situations of testing of statistical hypothesis

A. There are two hypothesis [null: H_0 and Alternative :H_1)
B. Both of the hypotheses can be accepted/rejected for any given situation based on data at same time
C. The critical value of the test statistic lies in the acceptance region, corresponding to rejection of the null Hypothesis
D. Null Hypothesis is two tailed and Alternative hypothesis is one tailed
E. If one hypothesis (H_0//H_1) is rejected other is accepted (H_0//H_1)

Choose the ***most appropriate*** answer from the options given below:

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

Options :

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

Question Number : 129 Question Id : 34212313735 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

which of the following statements are TRUE for the situations of testing of statistical hypothesis

A. There are two hypothesis [null: H_0 and Alternative :H_1)
B. Both of the hypotheses can be accepted/rejected for any given situation based on data at same time
C. The critical value of the test statistic lies in the acceptance region, corresponding to rejection of the null Hypothesis
D. Null Hypothesis is two tailed and Alternative hypothesis is one tailed
E. If one hypothesis (H_0/H_1) is rejected other is accepted (H_0/H_1)

Choose the ***most appropriate*** answer from the options given below:

1. B and D Only

2. D and E Only

3. B and C Only

4. A and E Only

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 130 Question Id : 34212313736 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Following statements specifies various steps involved for assessing the model fitness (regression analysis). Arrange these statements in correct sequence that helps in assessing the overall fitness of the model (dependent variable: y; independent variable: x)

A. Estimate the mean of residuals
B. Assessment of mean of fitted dependent variable and given dependent variable
C. estimate the value of a and b from equation $y = a + bx$
D. Assessment of the mean of the residuals
E. Calculate the value of residuals

Choose the ***most appropriate*** answer from the options given below:

1. C, B, D, E, A

2. C, E, B, A, D

3. E, B, D, A, C

4. E, A, B, C, D

Options :

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

Question Number : 130 Question Id : 34212313736 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Following statements specifies various steps involved for assessing the model fitness (regression analysis). Arrange these statements in correct sequence that helps in assessing the overall fitness of the model (dependent variable: y; independent variable: x)

A. Estimate the mean of residuals
B. Assessment of mean of fitted dependent variable and given dependent variable
C. estimate the value of a and b from equation $y = a + bx$
D. Assessment of the mean of the residuals
E. Calculate the value of residuals

Choose the ***most appropriate*** answer from the options given below:

1. C, B, D, E, A

2. C, E, B, A, D

3. E, B, D, A, C

4. E, A, B, C, D

Options :

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

Question Number : 131 Question Id : 34212313737 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

	LIST I **Statistical Test**		**LIST II** **Null Hypothesis**
A.	Mann-Whitney U Test	I.	Proportion across two groups same
B.	X^2 - test	II.	Median across two groups same
C.	Z - test	III.	Mean across three or more groups same
D.	ANOVA	IV.	No association between two categorical attributes

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

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

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

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

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

Options :

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

Question Number : 131 Question Id : 34212313737 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I Statistical Test		LIST II Null Hypothesis	
A.	Mann-Whitney U Test	I.	Proportion across two groups same
B.	X^2 - test	II.	Median across two groups same
C.	Z - test	III.	Mean across three or more groups same
D.	ANOVA	IV.	No association between two categorical attributes

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

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

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

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

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

Options :

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

Question Number : 132 Question Id : 34212313738 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following is NOT linked to Biodiversity loss and ecosystem services?

1. Intergovernmental Science-Policy platform for Biodiversity and Ecosystem Services (IPBES)

2. Commission on Ecosystem Management (CEM)

3. Millennium Ecosystem Assessment (MEA)

4. The Economics of Ecosystem and Biodiversity (TEEB)

Options :

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

Question Number : 132 Question Id : 34212313738 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following is NOT linked to Biodiversity loss and ecosystem services?

1. Intergovernmental Science-Policy platform for Biodiversity and Ecosystem Services (IPBES)

2. Commission on Ecosystem Management (CEM)

3. Millennium Ecosystem Assessment (MEA)

4. The Economics of Ecosystem and Biodiversity (TEEB)

Options :

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

Question Number : 133 Question Id : 34212313739 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following is the most recent contribution of India having the global impact?

1. Coalition for Disaster Resilient Infrastructure (CDRI)

2. International Big Cat Alliance (IBCA)

3. International Solar Alliance (ISA)

4. Mission LiFE

Options :

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

Question Number : 133 Question Id : 34212313739 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following is the most recent contribution of India having the global impact?

1. Coalition for Disaster Resilient Infrastructure (CDRI)

2. International Big Cat Alliance (IBCA)

3. International Solar Alliance (ISA)

4. Mission LiFE

Options :

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

Question Number : 134 Question Id : 34212313740 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The concept of Nature Based Solution (NBS) is encouraged by-

1. International Geosphere Biosphere Programme (IGBP)

2. Pilot Analysis of Global Ecosystem (PAGE)

3. International Union for Conservation of Nature (IUCN)

4. International Human Dimensions Programme and Global Environmental Change (IHDP)

Options :

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

Question Number : 134 Question Id : 34212313740 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The concept of Nature Based Solution (NBS) is encouraged by-

1. International Geosphere Biosphere Programme (IGBP)

2. Pilot Analysis of Global Ecosystem (PAGE)

3. International Union for Conservation of Nature (IUCN)

4. International Human Dimensions Programme and Global Environmental Change (IHDP)

Options :

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

Question Number : 135 Question Id : 34212313741 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the following regions of India in decreasing order of their identified Hydro power capacity (in MW).

A. Eastern Region
B. North Eastern Region
C. Northern Region
D. Southern Region
E. Western Region

Choose the ***most appropriate*** answer from the options given below:

1. C, D, A, B, E

2. D, C, E, B, A

3. B, C, D, A, E

4. C, B, A, D, E

Options :

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

Question Number : 135 Question Id : 34212313741 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the following regions of India in decreasing order of their identified Hydro power capacity (in MW).

A. Eastern Region
B. North Eastern Region
C. Northern Region
D. Southern Region
E. Western Region

Choose the ***most appropriate*** answer from the options given below:

1. C, D, A, B, E

2. D, C, E, B, A

3. B, C, D, A, E

4. C, B, A, D, E

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 136 Question Id : 34212313742 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the following criterion of GRIHA: 2019 in increasing order of points alloted.

A. Energy optimisation
B. Green Infrastructure
C. Maintaining good IAQ
D. Top Soil Preservation
E. Water Demand Reduction

Choose the ***most appropriate*** answer from the options given below:

1. A, C, B, E, D

2. D, C, B, E, A

3. C, A, B, E, D

4. D, E, B, C, A

Options :

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

Question Number : 136 Question Id : 34212313742 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the following criterion of GRIHA: 2019 in increasing order of points alloted.

A. Energy optimisation
B. Green Infrastructure
C. Maintaining good IAQ
D. Top Soil Preservation
E. Water Demand Reduction

Choose the ***most appropriate*** answer from the options given below:

1. A, C, B, E, D

2. D, C, B, E, A

3. C, A, B, E, D

4. D, E, B, C, A

Options :

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

Question Number : 137 Question Id : 34212313743 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which among the following National Mission under National Action Plan of Climate change are taken care under Department of Science and Technology (DST)?

A. Enhanced Energy Efficiency
B. Sustaining the Himalayan Ecosystem
C. Sustainable Agriculture
D. Strategic Knowledge for climate change
E. Sustainable Habitat

Choose the ***most appropriate*** answer from the options given below:

1. A and C Only

2. B and D Only

3. C and E Only

4. A and E Only

Options :

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

Question Number : 137 Question Id : 34212313743 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which among the following National Mission under National Action Plan of Climate change are taken care under Department of Science and Technology (DST)?

A. Enhanced Energy Efficiency
B. Sustaining the Himalayan Ecosystem
C. Sustainable Agriculture
D. Strategic Knowledge for climate change
E. Sustainable Habitat

Choose the ***most appropriate*** answer from the options given below:

1. A and C Only

2. B and D Only

3. C and E Only

4. A and E Only

Options :

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

Question Number : 138 Question Id : 34212313744 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following Environmental movement are correctly written with place of origin ?

A. Appiko movement (1983)- Kerala
B. Bishnoi movement (1700)- Rajasthan
C. Gandhamardhan movement (1983) - Odisha
D. Jungle Bachao movement (1982) - Bihar
E. Silent Valley movement (1973) - Karnataka

Choose the ***most appropriate*** 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 :

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

Question Number : 138 Question Id : 34212313744 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following Environmental movement are correctly written with place of origin ?

A. Appiko movement (1983)- Kerala
B. Bishnoi movement (1700)- Rajasthan
C. Gandhamardhan movement (1983) - Odisha
D. Jungle Bachao movement (1982) - Bihar
E. Silent Valley movement (1973) - Karnataka

Choose the ***most appropriate*** 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 :

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

Question Number : 139 Question Id : 34212313745 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I Environmental Disaster		**LIST II Place**	
A.	Agent Orange	I.	China
B.	Bohai Bay	II.	Japan
C.	Itai-Itai	III.	United states
D.	Love canal	IV.	Vietnam

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

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

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

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

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

Options :

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

Question Number : 139 Question Id : 34212313745 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I Environmental Disaster		**LIST II Place**	
A.	Agent Orange	I.	China
B.	Bohai Bay	II.	Japan
C.	Itai-Itai	III.	United states
D.	Love canal	IV.	Vietnam

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

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

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

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

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

Options :

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

Question Number : 140 Question Id : 34212313746 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I Wetland		**LIST II State**	
A.	Kanjli lake	I.	Kerala
B.	Point Calimere	II.	Punjab
C.	Rudrasagar lake	III.	Tamil Nadu
D.	Vembanad Kol Wetland	IV.	Tripura

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

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

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

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

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

Options :

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

Question Number : 140 Question Id : 34212313746 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the **List-I** with **List-II**

LIST I Wetland		**LIST II State**	
A.	Kanjli lake	I.	Kerala
B.	Point Calimere	II.	Punjab
C.	Rudrasagar lake	III.	Tamil Nadu
D.	Vembanad Kol Wetland	IV.	Tripura

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

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

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

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

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

Options :

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

Sub-Section Number : 2

Sub-Section Id : 342123538

Question Shuffling Allowed : No

Question Id : 34212313747 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (141 to 145)

Question Label : Comprehension

A Community based study of respiratory illness during the first year of life was performed in Central India. The following table represents the data according to the socio-economic status, the number of children, and the number of children who developed the symptoms of respiratory illness.

Socio-economic status	Low	Medium	High
Number of children	50	100	100
Number of children with illness	10	10	5

This data was collected through the face to face interview involving team of pediatricians and social scientists. The community belonged to the rural area in Central India (State of Chhattisgarh) in which there were 1500 households. A total of 100 households were selected with fifty each from left and right to the main lane of the community. To facilitate the process of interview, interviewers collected information through a validated questionnaire in local language which was pilot tested in the community. Based on the above information answer the following questions.

Sub questions

Question Number : 141 Question Id : 34212313748 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

What is the percent for total children who suffered from illness across all the three strata?

1. 5%

2. 10%

3. 15%

4. 20%

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 142 Question Id : 34212313749 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

What is the ratio of illness between high socio-economic and the low socio-economic status?

1. 1:1

2. 1:2

3. 1:3

4. 1:4

Options :

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

Question Number : 143 Question Id : 34212313750 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

If we wish to classify each of 250 children according to their status of illness, then illness is which data type?

1. Nominal

2. Mixed

3. String

4. Binominal

Options :

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

Question Number : 144 Question Id : 34212313751 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

What was the sampling procedure to select 100 households?

1. Stratified Random Sampling

2. Simple Random Sampling

3. Cluster Sampling

4. Systematic Random Sampling

Options :

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

Question Number : 145 Question Id : 34212313752 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following combination is true with respect to mechanisms of data collection (a: pilot testes; b: involved three members; c: Computerized system of data collection; d: face- to-face)

1. (b,c)

2. (a,d)

3. (b,d)

4. (c,d)

Options :

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

Question Id : 34212313747 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (141 to 145)

Question Label : Comprehension

A Community based study of respiratory illness during the first year of life was performed in Central India. The following table represents the data according to the socio-economic status, the number of children, and the number of children who developed the symptoms of respiratory illness.

Socio-economic status	Low	Medium	High
Number of children	50	100	100
Number of children with illness	10	10	5

This data was collected through the face to face interview involving team of pediatricians and social scientists. The community belonged to the rural area in Central India (State of Chhattisgarh) in which there were 1500 households. A total of 100 households were selected with fifty each from left and right to the main lane of the community. To facilitate the process of interview, interviewers collected information through a validated questionnaire in local language which was pilot tested in the community. Based on the above information answer the following questions.

Sub questions

Question Number : 141 Question Id : 34212313748 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

What is the percent for total children who suffered from illness across all the three strata?

1. 5%

2. 10%

3. 15%

4. 20%

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 142 Question Id : 34212313749 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

What is the ratio of illness between high socio-economic and the low socio-economic status?

1. 1:1

2. 1:2

3. 1:3

4. 1:4

Options :

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

Question Number : 143 Question Id : 34212313750 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

If we wish to classify each of 250 children according to their status of illness, then illness is which data type?

1. Nominal

2. Mixed

3. String

4. Binominal

Options :

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

Question Number : 144 Question Id : 34212313751 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

What was the sampling procedure to select 100 households?

1. Stratified Random Sampling
2. Simple Random Sampling
3. Cluster Sampling
4. Systematic Random Sampling

Options :

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

Question Number : 145 Question Id : 34212313752 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following combination is true with respect to mechanisms of data collection (a: pilot testes; b: involved three members; c: Computerized system of data collection; d: face- to-face)

1. (b,c)
2. (a,d)
3. (b,d)
4. (c,d)

Options :

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

Sub-Section Number : 3
Sub-Section Id : 342123539
Question Shuffling Allowed : No

Question Id : 34212313753 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix
Question Numbers : (146 to 150)

Question Label : Comprehension

Traditional ecological knowledge is a body of knowledge and a framework to distinguish between its empirical kinds and ways of life; between information and ways of knowing. It is considered at several levels of analysis and consistent as knowledge-practice-belief complex. It begins at level of taxonomic systems and then proceeds to understanding of processes or functions. It follows 'paradigmatic knowledge' or interpretation of empirical observation to put them in a context, and then knowledge embedded in social institutions, the rules and norms of society, and finally the regional worldview or belief system. In practice these analyses are concentric but not always distinct. The social institutions and management systems are often closely coupled that may seem artificial. One may argue that these are one and the same that may adapt, change or fall apart or renewed. Worldview and social institutions but may themselves be affected by changes occurring at other scales.

Sub questions

Question Number : 146 Question Id : 34212313754 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following order correctly represents the interrelated levels of traditional knowledge system?

1. Worldview, social institutions, local knowledge of land and animals, land and resource management

2. Social institutions, local knowledge of land and animals, land and resource management system, worldview

3. Local knowledge of land and animals, land resource management system, social institutions, worldview

4. Land and resource management system, local knowledge of land and animals, social institutions, worldview

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 147 Question Id : 34212313755 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following order is the correct arrangement for formulation of 'traditional ecological Knowledge and Management Frame work' correct in the present "Knowledge-Practice- belief complex"?

1. Wisdom, Knowledge, Information, Fact, Data

2. Fact, Data, Information, Knowledge, Wisdom

3. Data, Fact, Information, Knowledge, Wisdom

4. Information, Fact, Data, knowledge, Wisdom

Options :

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

Question Number : 148 Question Id : 34212313756 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The Traditional ecological knowledge follows the following scales

1. Temporal scale only

2. Spatial scale OR Temporal scales

3. Spatial scale only

4. Spatial and Temporal scales both

Options :

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

Question Number : 149 Question Id : 34212313757 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following is the most stable scale in Traditional Ecological Knowledge system?

1. Worldview

2. Social institutions

3. Local knowledge of land and animals

4. Land and resource management system

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 150 Question Id : 34212313758 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following include the knowledge that frame the process of memory, creativity and learning to form norms and code of relationship of a group of independent hunters, fishers and agriculturalists to function effectively.

1. Land and resource management systems

2. Local knowledge of land and animals

3. Social institutions

4. Worldview

Options :

1. 1

2. 2

3. 3

4. 4

Question Id : 34212313753 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (146 to 150)

Question Label : Comprehension

Traditional ecological knowledge is a body of knowledge and a framework to distinguish between its empirical kinds and ways of life; between information and ways of knowing. It is considered at several levels of analysis and consistent as knowledge-practice-belief complex. It begins at level of taxonomic systems and then proceeds to understanding of processes or functions. It follows 'paradigmatic knowledge' or interpretation of empirical observation to put them in a context, and then knowledge embedded in social institutions, the rules and norms of society, and finally the regional worldview or belief system. In practice these analyses are concentric but not always distinct. The social institutions and management systems are often closely coupled that may seem artificial. One may argue that these are one and the same that may adapt, change or fall apart or renewed. Worldview and social institutions but may themselves be affected by changes occurring at other scales.

Sub questions

Question Number : 146 Question Id : 34212313754 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following order correctly represents the interrelated levels of traditional knowledge system?

1. Worldview, social institutions, local knowledge of land and animals, land and resource management

2. Social institutions, local knowledge of land and animals, land and resource management system, worldview

3. Local knowledge of land and animals, land resource management system, social institutions, worldview

4. Land and resource management system, local knowledge of land and animals, social institutions, worldview

Options :

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

Question Number : 147 Question Id : 34212313755 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following order is the correct arrangement for formulation of 'traditional ecological Knowledge and Management Frame work' correct in the present "Knowledge-Practice- belief complex"?

1. Wisdom, Knowledge, Information, Fact, Data

2. Fact, Data, Information, Knowledge, Wisdom

3. Data, Fact, Information, Knowledge, Wisdom

4. Information, Fact, Data, knowledge, Wisdom

Options :

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

Question Number : 148 Question Id : 34212313756 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The Traditional ecological knowledge follows the following scales

1. Temporal scale only

2. Spatial scale OR Temporal scales

3. Spatial scale only

4. Spatial and Temporal scales both

Options :

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

Question Number : 149 Question Id : 34212313757 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following is the most stable scale in Traditional Ecological Knowledge system?

1. Worldview

2. Social institutions

3. Local knowledge of land and animals

4. Land and resource management system

Options :

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

Question Number : 150 Question Id : 34212313758 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following include the knowledge that frame the process of memory, creativity and learning to form norms and code of relationship of a group of independent hunters, fishers and agriculturalists to function effectively.

1. Land and resource management systems

2. Local knowledge of land and animals

3. Social institutions

4. Worldview

Options :

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