ICAR AIEEA PG

QUESTION PAPER

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PREVIEW QUESTION BANK

Module Name : ANIMAL BIOTECHNOLOGY-ENG
Exam Date : 29-Jun-2024 Batch : 10:00-12:00

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	120001	Acid phosphatase is the marker enzyme for 1. Plasma membrane 2. Mitochondria 3. Lysosomes 4. Cytosol A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
2	120002	The primary amino acids generally present in mammalian proteins are 1. Alpha (α) D- amino acids 2. Beta (β) D- amino acids 3. Beta (β) L- amino acids 4. Alpha (α) L- amino acids A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
3	120003	Sodium/Potassium ATPase is the marker enzyme for 1. Plasma membrane 2. Mitochondria 3. Lysosomes 4. Cytosol A1 : 1 A2 : 2	4.0	1.00

		A3 : 3 A4 : 4		
Objective Question				
4	120004	Polysaccharide present in bacterial cell wall is 1. Starch 2. Cellulose 3. Chitin 4. Peptidoglycan A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
5	120005	Fluid mosaic model of cell membrane is given by 1. Singer and Nicolson 2. De Duve 3. Koshland 4. Emil Fisher A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
6	120006	Endoplasmic targeting signal is 1. Lys-Asp-Glu-Leu 2. Pro-Lys-Ala-Lys-Val 3. Ser-Lys-Leu 4. Asp-Glu-Leu-Lys A1 : 1 A2 : 2	4.0	1.00

		A3 : 3 A4 : 4		
Objective Question				
7	120007	Golgi apparatus plays important role in 1. Protein synthesis 2. Protein glycosylation 3. Protein degradation 4. Metabolism of nucleosides A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
8	120008	Chitin is a linear homopolysaccharide composed of ---------- residues linked by β linkage 1. Glucose 2. N-acetylmuramic acid 3. N-acetylglucosamine 4. Glucasamine A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
9	120009	Inulin is a polymer of---------- 1. Glucose 2. Galactose 3. Mannose 4. Fructose A1 : 1 A2 : 2 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
10	120010	A bacteriophage infects 1. Human 2. Plants 3. Yeast 4. Bacteria A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
11	120011	Approximate numbers of proteins present in 40 S subunit of mammalian ribosomes are 1. 25 2. 35 3. 45 4. 55 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
12	120012	40 S subunit of mammalian ribosomes contain 1. 5S RNA 2. 5.8 S RNA 3. 18S RNA 4. 28S RNA A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

13	120013	Acetylation of histones H3 and H4 is associated with 1. The activation or inactivation of gene transcription 2. The chromosomal assembly during DNA replication 3. The condensation of chromosomes during the replication cycle 4. The DNA repair A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

14	120014	In animal cells the DNA synthesis occurs during -------- phase of cell cycle 1. G1 2. G2 3. S 4. G0 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

15	120015	All transaminases has a common prosthetic group 1. NADPH 2. $FADH_2$ 3. Pyridoxal phosphate 4. NADH A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

16	120016		4.0	1.00

		---- cyclin dependent kinase (CDK) is involved in the progression past restriction point at G1/S boundary of cell A 1. CDK1 2. CDK2 3. CDK3 4. CDK4 A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
17	120017	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). A : The ends of the chromosomes contain structures called telomeres R: DNA dependent DNA polymerase is the enzyme responsible for telomere synthesis In light of the above statements, choose the *most appropriate* answer from the options given below . 1. Both (A) and (R) are correct and (R) is the correct explanation of (A). 2. Both (A) and (R) are correct but (R) is NOT the correct explanation of (A). 3. (A) is correct but (R) is not correct. 4. (A) is not correct but (R) is correct. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
18	120018		4.0	1.00

		Identify glycosaminoglycans (A) Heparin, (B) Dermatan sulfate (C) Chondroitin sulfate (D) Hyaluronic acid (HA) Choose the ***correct*** answer from the options given below: 1. (A), (B) and (C) only. 2. (A), (B) and (D) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
19	120019	Factors that stimulate osteoclasts are (A) PTH (B) 1,25-dihydroxycholecalciferol (C) TGF beta (D) TNF Choose the ***correct*** answer from the options given below: 1. (A), (B) and (C) only. 2. (A), (B) and (D) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
20	120020		4.0	1.00

Membranes are complex structures composed of

(A) RNA

(B) Proteins

(C) Lipids

(D) Carbohydrates

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

1. (A), (B) and (C) only
2. (A), (B) and (D) only
3. (A), (B), (C) and (D)
4. (B), (C) and (D) only

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

21	120021	Identify extracellular matrix proteins (A) Albumin (B) Fibronectin (C) Vitronectin (D) Laminin Choose the ***correct*** answer from the options given below: 1. (A), (B) and (C) only 2. (A), (B) and (D) only 3. (A), (B), (C) and (D) 4. (B), (C) and (D) only A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

22	120022		4.0	1.00

Factors that inhibit osteoclasts are

(A) Calcitonin

(B) PGE2

(C) TNF

(D) TGF beta

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

1. (A), (B) and (C) only
2. (A), (B) and (D) only
3. (A), (B), (C) and (D)
4. (B), (C) and (D) only

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

23	120023	Hormones involved in calcium metabolism are (A) FSH (B) Vitamin D (C) PTH (D) Calcitonin Choose the ***correct*** answer from the options given below: 1. (A), (B) and (C) only 2. (A), (B) and (D) only 3. (A), (B), (C) and (D) 4. (B), (C) and (D) only A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

24	120024		4.0	1.00

Identify correct sentence(s) regarding membrane lipids

(A) Membrane lipids are amphipathic

(B) Membrane lipids forms bilayers

(C) Membrane lipids are polar

(D) Membrane lipids forms single layer

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

1. (A), (B) and (C) only
2. (A) and (B) only
3. (A), (B), (C) and (D)
4. (B), (C) and (D) only

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

25	120025		4.0	1.00

For active transport, energy can be derived from

(A) ATP

(B) Light

(C) Electron movement

(D) NADH

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

1. (A), (B) and (C) only
2. (A), (B) and (D) only
3. (A), (B), (C) and (D)
4. (B), (C) and (D) only

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

26	120026		4.0	1.00

Common covalent modifications in core histone proteins include

(A) Acetylation

(B) Methylation

(C) Phosphorylation

(D) ADP-ribosylation

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

1. (A), (B) and (C) only
2. (A), (B) and (D) only
3. (A), (B), (C) and (D)
4. (B), (C) and (D) only

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

27 120027 4.0 1.00

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

List-I	**List-II**
Protein	function
(A). DNA polymerase	(I). Deoxynucleotide polymerization
(B). Helicases	(II). Unwinding of DNA
(C). Topoisomerases	(III). Relieve torsional strain
(D). DNA primase	(IV) Initiate synthesis of RNA primers

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

28 120028 4.0 1.00

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

List-I	**List-II**
Mammalian DNA polymerase	Function
(A). α	(I). Gap filling and synthesis of lagging strand
(B). β	(II). DNA repair
(C). γ	(III). Mitochondrial DNA synthesis
(D). δ	(IV). Leading strand synthesis

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

29 120029 4.0 1.00

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

List-I	**List-II**
Substance	Concentration in extracellular fluid
(A). Na^+	(I). 140 mmol/L
(B). K^+	(II). 4 mmol/L
(C). Cl^-	(III). 100 mmol/L
(D). Mg^{+2}	(IV). 1.5 mmol/L

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

30	120030		4.0	1.00

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

List-I	**List-II**
Collagen type	Tissue
(A). I	(I). Most connective tissues
(B). II	(II). Cartilage
(C). III	(III). Skin, lungs
(D). IV	(IV). Basement membrane

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

31	120031	Carbohydrates are A. Organic compounds with a minimum three number of carbons B. Polyhydroxy alcohols C. Hydrates of carbon D. Polyhydroxy aldehydes or ketone 1. A, B and D only 2. A, C and D only 3. B, C and D only 4. A, B and C only A1 : 1 A2 : 2 A3 : 3	4.0	1.00

A4 : 4

Objective Question

32	120032	Which of the following explains the reducing end of polysaccharides? (A). End with free epimeric carbon (B). End with free anomeric carbon (C). End with free carboxylic carbon (D). End with free carbonyl carbon Choose the ***correct*** answer from the options given below: 1. (A) and (D) only. 2. (B) and (D) only. 3. (B) and (C) only. 4. (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

33	120033	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Glycosamino glycans are having characteristically high negative charge in nature. Reason (R) : Gycosaminoglycans are made up of alternating units of uronic acids and amino sugar with sulfated ester. In light of the above statements, choose the *correct* answer from the options given below: 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

34	120034		4.0	1.00

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

List-I	**List-II**
Name of the Lectin	**Source**
(A). ConA	(I). Bacteria
(B). MbpA	(II). Viral
(C). CT	(III). Animal
(D). VP1	(IV). Plant

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

35	120035	Centrifugation technique which uses $CsCl_2$ for the separation of DNA is known as 1. Differential centrifugation 2. Ultra centrifugation 3. High speed centrifugation 4. Isopycnic centrifugation A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

36	120036		4.0	1.00

		Which one of the following amino acids is amphipathic in nature? 1. Lysine 2. Aspartic acid 3. Arginine 4. Tyrosine A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
37	120037	Which one of the following groups of pairs of abbreviation and symbol of amino acids is CORRECT? 1. Gly=G; Phe=F; Tyr=T 2. Ala=A; Trp=W; Phe=F 3. Lys=L; Met=M; Arg=A 4. His=H; Asn=D; Glu=G A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
38	120038	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Proteins absorb light maximum at 260 nm Reason (R) : Maximum light absorption for both tryptophan and tyrosine occurs near a wavelength of 280 nm In light of the above statements, choose the *correct* answer from the options given below 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
39	120039	The average molecular weight of amino acid in a peptide is 1. 138 daltons 2. 128 daltons 3. 110 daltons 4. 120 daltons A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
40	120040	Transport of ammonia from skeletal muscle to the liver takes place through 1. Cori cycle 2. Aspartate-Arginino succinate shutle 3. Glucose-Alanine cycle 4. Citric Acid cycle A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
41	120041	In ion-exchange chromatography, the charge on the anion exchangers is 1. Positive 2. Negative 3. Zwitter ionic 4. Iso-ionic A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

42	120042	Identify the strong anion exchangers among the following exchange types commonly used in ion-exchange chromatography techniques. (A). Sulphonate (B). Quaternary amine (C). Diethyl amino ethyl (D). Hydroxyapatite Choose the ***correct*** answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (B) and (C) only. 3. (B) and (D) only. 4. (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

43	120043	In SDS-PAGE, the proteins are separated mainly based on 1. Molecular sieving effect 2. Charge/mass ratio 3. Partition principle 4. Adsorption principle A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

44	120044		4.0	1.00

		Which of the following reagents are specifically react with amino-terminal amino acid present in a peptide? (A). 1, Fluoro 2, 4- Dinitro Benzene (B). Dansyl chloride (C). Phenyl isothiocyanate. (D). Ninhydrin Choose the ***correct*** answer from the options given below: 1. (A) and (D) only. 2. (A) and (C) only. 3. (C) and (D) only. 4. (B) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
45	120045	Arrange the events employed for the determination of the primary structure of proteins. (A). Breaking of disulfide bridges. (B). End group analysis. (C). Creation of overlapping fragments. (D). Amino acid sequence determination. Choose the **correct** answer from the options given below: 1. (B), (A), (C), (D). 2. (C), (B), (A), (D). 3. (B), (A), (D), (C). 4. (C), (B), (D), (A). A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
46	120046		4.0	1.00

The amino acid that hinders the formation of α - helical structure is

1. His
2. Phe
3. Pro
4. Arg

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

47 120047 4.0 1.00

Match the co-factor given in list I with the enzyme given in list II.

List-I	List-II
Co-factors	Enzyme
(A). Cu^{2+}	(I). Hexokinase
(B). Zn^{2+}	(II). Glutathione peroxidase
(C). Mg^{2+}	(III). Cytochrome Oxidase
(D). Se	(IV). Carbonic anhydrase

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

48 120048 4.0 1.00

		Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Lyase removes the group by the formation of double bonds. Reason (R) : Hydrolase transfers the functional group to water. In light of the above statements, choose the correct answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
49	120049	Identify the correct order of events of enzyme catalyzed reaction. (A). Formation of ES complex. (B). Formation of EP complex. (C). Reaction between E and S. (D). Release of P and E. Choose the **correct** answer from the options given below. 1. (B), (D), (C), (A). 2. (D), (A), (C), (B). 3. (C), (A), (B), (D). 4. (C), (B), (D), (A). A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
50	120050		4.0	1.00

Which of the following statements are correct for Km - Michaelis Menten Constant?

(A). Km has unit of concentration

(B). Km is equal to substrate concentration.

(C). Quantitative relationship between the initial velocity, V_0 and the maximum velocity, V_{max}.

(D). Regulatory enzymes obey Michaelis Menten constant.

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

1. (A), (B) and (C) only.
2. (A), (B) and (D) only.
3. (A), (B), (C) and (D).
4. (B), (C) and (D) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

51	120051	Which one of the following statements regarding pyrimidine nucleotide is TRUE? 1. The base of the nucleotide is joined covalently at N-3 of pyrimidine to the first carbon of the Pentose. 2. The base of the nucleotide is joined covalently at N-3 of purine to the first carbon of the pentose. 3. The base of the nucleotide is joined covalently at N-1 of pyrimidine to the first carbon of the pentose. 4. The base of the nucleotide is joined covalently at N-1 of purine to the first carbon of the pentose. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

52	120052	In the sequence 'pApCpGpTpA', the 'p' between 'A' and 'C' represents. 1. Phsphoester bond 2. Ether linkage 3. Phospho diester linkage. 4. Peptide bond A1 : 1 A2 : 2	4.0	1.00

A3 : 3

A4 : 4

Objective Question

53	120053	Which of the following co-enzymes are nucleotide in nature? (A). NAD (B). Co-enzyme A (C). FMN (D). TPP Choose the ***correct*** answer from the options given below: 1. (A), (B) and (D) only 2. (A), (C) and (D) only 3. B), (C) and (D) only 4. (A), (B) and (C) only A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

54	120054	From the designation, 18:2($\Delta^{9,12}$), identify the name of the fatty acid. 1. Eladic acid 2. Oleic acid 3. Linoleic acid 4. Linolenic acid A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

55	120055		4.0	1.00

Which of the following statments are correct with reference to the ionic forms at physiological pH

(A). Phosphatidyl ethanolamine is zwitter ionic

(B). Phosphotidyl choline is cationic

(C). Phosphotidyl serine is anionic

(D). Cardiolipin is anionic

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

1. (A), (B) and (D) only
2. (A), (C) and (D) only
3. (B), (C) and (D) only
4. (C) and (D) only

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

56	120056	Which of the following can act as intracellular signal molecules? (A). Phosphatidyl inositol (B). Sphingomyelin (C). Plasmalogens (D). Ceramide Choose the ***correct*** answer from the options given below: 1. (A), (B) and (D) only 2. (A), (C) and (D) only 3. (B), (C) and (D) only 4. (A), (B), (C) and (D) A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

57	120057		4.0	1.00

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).

Assertion (A) : The myelin sheath consist primarily of lipid

Reason (R) : The relative proportion of protein and lipid varies with the type of membrane and it's role.

In light of the above statements, choose the *correct* answer from the options given below

1. Both (A) and (R) are true and (R) is the correct explanation of (A).
2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
3. (A) is true but (R) is false.
4. (A) is false but (R) is true.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

58 120058 4.0 1.00

Match the type of the transport across the plasma membrane with the given molecule.

List-I	List-II
Type of transport	Molecule
(A). Simple Diffusion	(I). Glucose
(B). Facilitated Diffusion	(II). Lactose
(C). Primary active transport	(III). Sodium/Potassium
(D). Secondary active transport	(IV). Nitrous oxide (NO)

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question				
59	120059	Insulin receptor is 1. 'Thr' specific protein kinase 2. 'Ser' specific protein kinase 3. 'Tyr' specific protein kinase 4. 'His' specific protein kinase A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
60	120060	Which of the following uses cAMP as a second messenger. (A). Corticotropin (B). Dopamine (C). Histamine (D). Progesterone Choose the ***correct*** answer from the options given below: 1. (A), (B) and (C) only 2. (A), (B) and (D) only 3. (A) and (D) only 4. (B), (C) and (D) only A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
61	120061	Credit for discovering Rh blood antigen is given to 1. Rhesus Macaque 2. Karl Landsteiner 3. Paul Eherlich 4. Peter Doherty A1 : 1 A2 : 2	4.0	1.00

		A3 : 3 A4 : 4		
Objective Question				
62	120062	Bursa equivalent organ in human being regarding lymphocytes, is - 1. Thymus 2. Spleen 3. Payer's patches 4. Bone marrow A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
63	120063	J-polypeptide chain is structural component of – (A) IgG (B) IgA (C) IgM (D) IgD Choose the ***correct*** answer from the options given below: 1. Only (C) 2. (A), (B) and (D) only. 3. Only (B). 4. (B), and (C) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
64	120064		4.0	1.00

		Which of these cells is CD8 positive cell? 1. Macrophage 2. Neutrophil 3. T suppressor cell 4. T helper cell A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
65	120065	Crazy chick disease of chicks occurs due to deficiency of - 1. Thiamine 2. Niacin 3. Tocopherol 4. Riboflavin A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
66	120066	Which of these rings is found in structure of vitamin K? 1. Naphthoquinone 2. Iso-alloxazine 3. Chromane 4. Pyridine A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
67	120067		4.0	1.00

		Which of these vitamin derivatives is involved in oxidative decarboxylation reaction? 1. Thiamine 2. Folic acid 3. Riboflavin 4. Tocopherol A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
68	120068	Characteristic 'goose-stepping' gait in pigs occurs due to deficiency of - 1. Thiamine 2. Pantothenic acid 3. Riboflavin 4. Tocopherol A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
69	120069	Which of these is/are correct for calcium metabolism? (A) Calcitriol facilitates the absorption of calcium from intestine. (B) PTH enhances calcium transport from intestine by enhancing 1αhydroxylase activity. (C) Lysine and arginine amino acids enhance calcium absorption. (D) Calcitonin enhances calcium reabsorption from kidneys. Choose the ***correct*** answer from the options given below: 1. (B) and (D) only. 2. (C) and (D) only. 3. (A), (B) & (C) 4. (A) and (B) only. A1 : 1 A2 : 2	4.0	1.00

A3 : 3

A4 : 4

Objective Question

70	120070	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Bilateral cataract is very common in patients with uncontrolled diabetes mellitus. Reason (R) : It occurs due to glycosylation of α-crystallin protein of lens. In light of the above statements, choose the *correct* answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

71	120071	Which of these is/are helps in reabsorption of water from kidneys? (A) ADH hormone (B) Aldosterone hormone (C) Kinins (D) PGE2 Choose the ***correct*** answer from the options given below: 1. (B) and (D) only. 2. (C) and (D) only. 3. (A), (B) & (D) 4. (A) and (B) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

72	120072		4.0	1.00

Arrange the following statements in proper sequence:

(A) Hyperventilation and removal of excess CO_2 from ECF

(B) Restoration of pH and bicarbonate to carbonic acid ratio

(C) Decrease in pH and bicarbonate to carbonic acid ratio

(D) Decrease in partial pressure of CO_2

(E) Stimulation of respiratory centre

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

1. (E), (A), (D), (C), (B)
2. (C), (E), (A), (D), (B)
3. (E), (A), (B), (D), (C)
4. (C), (B), (D), (A), (E)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

73	120073		4.0	1.00

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).

Assertion (A) : Total body fluid volume can be measured using antipyrine by dye dilution method.

Reason (R) : Antipyrine is hydrophilic in nature thus get distributed evenly in ICF and ECF both.

In light of the above statements, choose the correct answer from the options given below.

1. Both (A) and (R) are true and (R) is the correct explanation of (A).
2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
3. (A) is true but (R) is false.
4. (A) is false but (R) is true.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

74	120074		4.0	1.00

		Carbaminohemoglobin releases CO_2 into lungs due to (A) Low pCO_2 (B) Higher pO_2 (C) High affinity for O_2 (D) Low pH Choose the ***correct*** answer from the options given below: 1. (A), (B) and (D) only 2. (A), (B) and (C) only 3. (A), (B), (C) and (D) 4. (B), (C) and (D) only A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
75	120075	CRH is an example of – 1. Steroid hormone 2. Amino acid derivative 3. Peptide hormone 4. Cytokine A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
76	120076		4.0	1.00

ADH functions as –

(A) Endocrine

(B) Paracrine

(C) Neurocrine

(D) Autocrine

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

1. (A), and (C) only.
2. (A), (B) and (D) only.
3. (A), (B), (C) and (D).
4. (B), (C) and (D) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

77	120077	Given below are two statements: Statement (I): Wilson's disease occurs due to accumulation of copper in liver and brain. Statement (II): It occurs due to defect in gene coding for copper binding ATPs that is required for excretion of copper from liver cells. In light of the above statements, choose the *most appropriate* answer from the options given below: 1. Both Statement (I) and Statement (II) are correct. 2. Both Statement (I) and Statement (II) are incorrect. 3. Statement (I) is correct but Statement (II) is incorrect. 4. Statement (I) is incorrect but Statement (II) is correct. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

78	120078	Which of these function as xanthine oxidase inhibitor? 1. Cyclo-oxygenase 2. Lipo-oxygenase 3. Allopurinol 4. Dimethyl sulfoxide	4.0	1.00

		A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
79	120079	Which of the following are responsible for vomition? (A). Apomorphine (B). Allopurinol (C). Toxic gastric irritation (D). Pylorous obstruction Choose the ***correct*** answer from the options given below: 1. (A), (C) and (D) only. 2. (B), (C) and (D) only. 3. (A), (B), (C) and (D). 4. (B) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
80	120080	Acute rumen indigestion occurs due to accumulation of – 1. d-Lactate 2. l-Lactate 3. Both d and l-Lactate 4. Ammonia gas A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
81	120081		4.0	1.00

		Which of these is used to prevent the urea poisoning in ruminants? 1. HCOOH 2. CH_3COOH 3. $CH_3COCOOH$ 4. C_2H_5COOH A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
82	120082	Indirect ELISA, also known as– 1. Double antibody sandwich (DAS) ELISA 2. Competitive ELISA 3. Triple antibody sandwich (TAS) ELISA 4. dot ELISA A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
83	120083	Which of these statements is/are correct about competitive ELISA? (A) It can be used for accurate measurement of the circulating level of the hormone. (B) There is competition between the natural antigen (hormone) to be tested for and an enzyme conjugated form of the antigen which is the detection reagent. (C) The more natural antigen present the more it will displace (compete out) the conjugated form leading to a reduction in enzyme bound to the plate. (D) The more natural antigen bound to the antigen, the higher the signal will be generated. Choose the ***correct*** answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (B) and (C) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1	4.0	1.00

		A2 : 2 A3 : 3 A4 : 4		
Objective Question				
84	120084	During Gastric Dilatation Volvulus (GDV) in dogs, the myocardial depressant factor is released from – 1. Perforated stomach 2. Degenerated liver 3. Ischemic pancreatic tissue 4. Large intestine A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
85	120085	Which of these is a best indicator of alcoholic cirrhosis? 1. GGT 2. ALT 3. AST 4. Alkaline phosphatase A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
86	120086		4.0	1.00

Severe diarrhea causes –

(A) Metabolic alkalosis due to loss of chloride ions.

(B) Metabolic acidosis due to loss of bicarbonate ions.

(C) Hyperkalemia due to decreased renal excretion.

(D) Respiratory acidosis due to retention of CO_2.

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

1. (A), and (D) only.
2. (A), (C) and (D) only.
3. (B), (C) and (D).
4. (B), and (C) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

87	120087		4.0	1.00

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).

Assertion (A) : Milk fever occurs just after parturition in high yielding cows.

Reason (R) : Just after parturition drain of most the blood glucose for the synthesis of lactose.

In light of the above statements, choose the *most appropriate* answer from the options given below .

1. Both (A) and (R) are correct and (R) is the correct explanation of (A).
2. Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
3. (A) is correct but (R) is not correct.
4. (A) is not correct but (R) is correct.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

88	120088		4.0	1.00

		β-endorphins are synthesized from – (A) Gonadotrpic cells of anterior lobe of adenohypophysis. (B) Gonadotrpic cells of intermediate lobe of adenohypophysis. (C) Corticotrpic cells of anterior lobe of adenohypophysis. (D) Corticotrpic cells of intermediate lobe of adenohypophysis. 1. (C) only. 2. (A), and (C) only. 3. (D) only. 4. (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
89	120089	Most active form of estrogen is – 1. Estrone 2. Estriol 3. β-estrodiol 4. Estetrol A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
90	120090	Rennin is produced from – 1. Stomach 2. Kidney 3. Skeletal muscle 4. Liver A1 : 1 A2 : 2 A3 : 3	4.0	1.00

A4 : 4

Objective Question

91 | 120091 | 4.0 | 1.00

The biomolecules which contain a nitrogenous base in their structure

(A) Adenosine triphosphate (ATP)

(B) Uridine diphosphogalactose

(C) Cytidine 5'-triphosphate

(D) CDP-diacylglycerol

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

1. (A), (B) and (D) only.
2. (A), (C) and (D) only.
3. (A), (B), (C) and (D).
4. (B), (C) and (D) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

92 | 120092 | 4.0 | 1.00

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).

Assertion (A) : An eukaryotic polypeptide chain containing 100 amino acid residues is coded by a gene containing morethan 300 nucleotide bases.

Reason (R) : Eukaryotic gene designated for a protein contain both the coding and noncoding part.

In light of the above statements, choose the *correct* answer from the options given below.

1. Both (A) and (R) are true and (R) is the correct explanation of (A).
2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
3. (A) is true but (R) is false.
4. (A) is false but (R) is true.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

93 | 120093 | 4.0 | 1.00

		Which of the following is true for replicative form of single stranded viral DNA 1. All the single stranded viral DNA become double stranded 2. Half of the viral DNA become double stranded DNA 3. All the DNAs are converted to RNA 4. Half of the viral DNA become doublie stranded DNA and another half become RNA A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
94	120094	Telomers are present in (A) E. coli chromosome (B) Yeast Chromosome (C) Human Chromosome (D) Molds chromosome Choose the ***correct*** answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (B) and (C) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
95	120095		4.0	1.00

		Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Plasmid can replicate independently but not a DNA fragment seperated from a eukaryotic chromosome. Reason (R) : Plasmid contain replication origin. In light of the above statements, choose the correct answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
96	120096	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : In RNA molecule guanine content is equal to the cytosine content. Reason (R) : Mostly RNAs are single stranded molecule. In light of the above statements, choose the correct answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
97	120097		4.0	1.00

Which of the following statements are true for process of translation?

(A). Either one strand of a double stranded DNA directs the sythesis of mRNA.

(B). Base sequence of transcribed RNA is complimentary to that of DNA strand.

(C). tRNAs molelcules align with the mRNA by complimentary base pairing between codons present in the mRNA and anticodon present in the anticodon arm of tRNA.

(D). Amino acids are covalently joined to form a polypeptide chain.

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

1. (A) and (D) only.
2. (B) and (D) only.
3. (A) and (B).
4. (B) and (C) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

98	120098	Watson and Crick base pairing is found in 1. tRNA molecules 2. Eukaryotic DNA molecules 3. rRNA molecules 4. mRNA molecules A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

99	120099	Covalently modified bases are found in 1. tRNA 2. hnRNA 3. snRNA 4. rRNA A1 : 1	4.0	1.00

		A2 : 2 A3 : 3 A4 : 4		
Objective Question				
100	120100	Which of the following parameters affecting the melting point of a DNA molecule (A) GC content in that DNA molecule (B). Concentration of the Mg^{2+} in the DNA solution (C). pH of the DNA solution (D). AT content of the DNA molecule Choose the ***correct*** answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (B) and (C) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				

101	120101	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Restriction endonuclease is used to cut DNA molecules for cloning. Reason (R) : Restriction endonuclease enzyme cut DNA molecule of any source into unique short pieces in a sequence specific manner. In light of the above statements, choose the *correct* answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
102	120102	The viral RNA inducible interferon system provides the molecular defense against 1. RNA viruses 2. Single stranded DNA viruses 3. Double stranded DNA viruses 4. Bacteria A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
103	120103	If a single strand of DNA contain seven restriction sites for a particular restriction endonuclease and none of the restriction site is present either at 3' or 5' end then this enzyme will form how many DNA fragment reacting on it 1. Six fragments 2. Seven fragments 3. Eight fragments 4. Nine fragments A1 : 1 A2 : 2	4.0	1.00

		A3 : 3 A4 : 4		

Objective Question

104	120104	Which of the following are true for a bacterial artificial chromosome? (A). It is a kind of artificial plasmid. (B). It can clone a DNA segment of 100000 to 300000 base pairs. (C). It can clone a DNA segment of 1000000 to 3000000 base pairs. (D). It can clone a DNA segment of 3000000 to 5000000 base pairs. Choose the ***correct*** answer from the options given below: 1. (A) and (B) only. 2. (B) and (D) only. 3. (A) and (C). 4. (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

105	120105	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Shuttle vector can propagated in cells of two or more species. Reason (R) : Shuttle vector contain multiple replication of origin and other elements that allows them to be used in more than one species. In light of the above statements, choose the *correct* answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

106	120106	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Two neutral solutions A and B contain double stranded DNA molecule with same length and same concentrations, solution A is heated to increase the temperature of solution and absorbance of both the solutions were measured at 260nm. The absorbance of the solution A was found more than that of solution B. Reason (R) : Denaturation of DNA increases the absorbance of UV rays at 260nm. In light of the above statements, choose the *correct* answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
107	120107	Which of the following statements are correct for a regulatory sequence in a gene? (A). Provide signal that denote begining of a gene. (B).Provide signal that denote end of a gene. (C). Influence transcription. (D). Function as initiation point for replication. Choose the ***correct*** answer from the options given below: 1. (A), (B) and (C) only. 2. (A), (B) and (D) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
108	120108		4.0	1.00

		The antibiotics are sensetive to β-lactamase enzyme (A). Penicillin (B). Ampicillin (C). Amoxicillin (D). Erytrhomysin Choose the ***correct*** answer from the options given below: 1. (A), (B) and (C) only. 2. (A), (B) and (D) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
109	120109	The statements true for topoisomerase-I enzyme (A). Transiently break one of the two DNA strands. (B). Break both of the strand of double helix DNA. (C). Change the linking number in increment of one. (D). Change the linking number by decreasing one. Choose the ***correct*** answer from the options given below: 1. (A)and (B) only. 2. (A) and (C) only. 3. (B), and (C) only 4. (B) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
110	120110		4.0	1.00

The eukaryotic histones whic are nearly identical in amino acid sequence

(A). H_1

(B). H_2A

(C). H_3

(D). H_4

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. (B), (C) and (D) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

111	120111	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : DNA replication is very accurate. Reason (R) : DNA polymerase add correct base with correct hydrogen bonding of the base pair and the common geometry of the standard A =T and G =C base pairs recognized by the active site of polymerase enzyme. In light of the above statements, choose the *correct* answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

112	120112		4.0	1.00

		The constituent units of a core *E coli* DNA polymerase III are (A). α (alpha) subunit (B). ε (epsilon) subunit (C). θ (theta) subunit (D). δ (delta) subunit Choose the ***correct*** answer from the options given below: 1. (A) and (B) only. 2. (A) and (C) only. 3. ((B), (C) and (D) only 4. (B) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
113	120113	Basic function of a fermentor is 1. To stenlize the medium 2. To recover the product 3. To provide optimum growth conditions to organism and obtaine desired product 4. To purify the product A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
114	120114	Vaccine was invented by 1. Louis Pasteur 2. Edward Jenner 3. Robert Downey 4. Von Behring A1 : 1 A2 : 2	4.0	1.00

A3 : 3

A4 : 4

Objective Question

115 | 120115 | 4.0 | 1.00

According to Wobble hypothesis GCI present in anticodon arm of tRNA can bind to triplet codons present in mRNA are

(A). 5' CGA3'

(B). 3'CGA5'

(C). 5' CGU3'

(D). 3' CGU 5'

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

1. (A) and (D) only
2. (A) and (C) only
3. (A), (B), (C) and (D)
4. (B), (C) and (D) only

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

116 | 120116 | 4.0 | 1.00

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).

Assertion (A) : Tetracycline inhibit protein synthesis in bacteria.

Reason (R) : It prevent binding of aminoacyl tRNA to A-site of active ribosomal subunit.

In light of the above statements, choose the correct answer from the options given below.

1. Both (A) and (R) are true and (R) is the correct explanation of (A).
2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
3. (A) is true but (R) is false.
4. (A) is false but (R) is true.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

117	120117	Which of the following are needed for polymerase chain reaction? (A). Template DNA segment of interest (B). Oligonucleotide primers (C). Taq DNA polymerase (D). Ribonucleotide triphosphates Choose the ***correct*** answer from the options given below: 1. (A), (B) and (C) only. 2. (A), (B) and (D) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
118	120118	Which of the following statements are correct for micro RNA (miRNA)? (A). Noncoding RNA (B). Regulates miRNA function (C). Involve in gene regulation (D). miRNAs are found in eukaryotes Choose the ***correct*** answer from the options given below: 1. (A), (B) and (C) only. 2. (A), (B) and (D) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
119	120119		4.0	1.00

Newly synthesized tRNA undergoes post transcriptional modifications which include

(A). Nucleotide alkylation

(B). Attachment of $C_pC_pA_{OH}$ terminal at 3' end

(C). Attachment of $C_pC_pA_{OH}$ terminal at 5' end

(D). Methylation of some bases

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

1. (A), (B) and (C) only.
2. (A), (B) and (D) only.
3. (A), (B), (C) and (D).
4. (B), (C) and (D) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

120	120120	Which of the follwoing statements are corrrect for stem cell? (A). Stem cells can be obtained from blastocytes (B). Embryonic stem cells can be grown in the laboratory (C). Stem cells are specialized cell (D). They can divide and renew for a long period Choose the ***correct*** answer from the options given below: 1. (A), (B) and (C) only. 2. (A), (B) and (D) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

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