

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	<p>Acid phosphatase is the marker enzyme for</p> <ol style="list-style-type: none"> 1. Plasma membrane 2. Mitochondria 3. Lysosomes 4. Cytosol <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
Objective Question				
2	120002	<p>The primary amino acids generally present in mammalian proteins are</p> <ol style="list-style-type: none"> 1. Alpha (α) D- amino acids 2. Beta (β) D- amino acids 3. Beta (β) L- amino acids 4. Alpha (α) L- amino acids <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
Objective Question				
3	120003	<p>Sodium/Potassium ATPase is the marker enzyme for</p> <ol style="list-style-type: none"> 1. Plasma membrane 2. Mitochondria 3. Lysosomes 4. Cytosol <p>A1 : 1</p> <p>A2 : 2</p>	4.0	1.00

A3 : 3

A4 : 4

Objective Question

4	120004	Polysaccharide present in bacterial cell wall is	4.0	1.00
		<ol style="list-style-type: none"> 1. Starch 2. Cellulose 3. Chitin 4. Peptidoglycan 		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

5	120005	Fluid mosaic model of cell membrane is given by	4.0	1.00
		<ol style="list-style-type: none"> 1. Singer and Nicolson 2. De Duve 3. Koshland 4. Emil Fisher 		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

6	120006	Endoplasmic targeting signal is	4.0	1.00
		<ol style="list-style-type: none"> 1. Lys-Asp-Glu-Leu 2. Pro-Lys-Ala-Lys-Val 3. Ser-Lys-Leu 4. Asp-Glu-Leu-Lys 		
		A1 : 1		
		A2 : 2		

		A3 : 3		
		A4 : 4		

Objective Question

7	120007	<p>Golgi apparatus plays important role in</p> <ol style="list-style-type: none"> 1. Protein synthesis 2. Protein glycosylation 3. Protein degradation 4. Metabolism of nucleosides <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

8	120008	<p>Chitin is a linear homopolysaccharide composed of ----- residues linked by β linkage</p> <ol style="list-style-type: none"> 1. Glucose 2. N-acetylmuramic acid 3. N-acetylglucosamine 4. Glucosamine <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

9	120009	<p>Inulin is a polymer of-----</p> <ol style="list-style-type: none"> 1. Glucose 2. Galactose 3. Mannose 4. Fructose <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p>	4.0	1.00
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		A4 : 4		
Objective Question				
10	120010	<p>A bacteriophage infects</p> <ol style="list-style-type: none"> 1. Human 2. Plants 3. Yeast 4. Bacteria <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
Objective Question				
11	120011	<p>Approximate numbers of proteins present in 40 S subunit of mammalian ribosomes are</p> <ol style="list-style-type: none"> 1. 25 2. 35 3. 45 4. 55 <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
Objective Question				
12	120012	<p>40 S subunit of mammalian ribosomes contain</p> <ol style="list-style-type: none"> 1. 5S RNA 2. 5.8 S RNA 3. 18S RNA 4. 28S RNA <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00

Objective Question				
13	120013	<p>Acetylation of histones H3 and H4 is associated with</p> <ol style="list-style-type: none"> 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 <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00

Objective Question				
14	120014	<p>In animal cells the DNA synthesis occurs during ----- phase of cell cycle</p> <ol style="list-style-type: none"> 1. G1 2. G2 3. S 4. G0 <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00

Objective Question				
15	120015	<p>All transaminases has a common prosthetic group</p> <ol style="list-style-type: none"> 1. NADPH 2. FADH₂ 3. Pyridoxal phosphate 4. NADH <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	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	<p>Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).</p> <p>A : The ends of the chromosomes contain structures called telomeres</p> <p>R: DNA dependent DNA polymerase is the enzyme responsible for telomere synthesis</p> <p>In light of the above statements, choose the <i>most appropriate</i> answer from the options given below .</p> <ol style="list-style-type: none"> 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. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

18	120018		4.0	1.00
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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	<p>Factors that stimulate osteoclasts are</p> <ul style="list-style-type: none"> (A).PTH (B).1,25-dihydroxycholecalciferol (C).TGF beta (D).TNF <p>Choose the correct answer from the options given below:</p> <ol style="list-style-type: none"> 1. (A), (B) and (C) only. 2. (A), (B) and (D) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

20	120020		4.0	1.00
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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	I20021	<p>Identify extracellular matrix proteins</p> <ul style="list-style-type: none"> (A).Albumin, (B).Fibronectin (C).Vitronectin (D).Laminin <p>Choose the correct answer from the options given below:</p> <ol style="list-style-type: none"> 1. (A), (B) and (C) only. 2. (A), (B) and (D) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

22	I20022		4.0	1.00
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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	<p>Hormones involved in calcium metabolism are</p> <ul style="list-style-type: none"> (A).FSH (B).Vitamin D (C).PTH (D).Calcitonin <p>Choose the correct answer from the options given below:</p> <ol style="list-style-type: none"> 1. (A), (B) and (C) only. 2. (A), (B) and (D) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

24	120024		4.0	1.00
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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	<p>For active transport, energy can be derived from</p> <ul style="list-style-type: none"> (A).ATP (B).Light (C).Electron movement (D).NADH <p>Choose the correct answer from the options given below:</p> <ol style="list-style-type: none"> 1. (A), (B) and (C) only. 2. (A), (B) and (D) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

26	120026		4.0	1.00
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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:

- (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
- (A) - (I), (B) - (III), (C) - (II), (D) - (IV)
- (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
- (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:

- (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
- (A) - (I), (B) - (III), (C) - (II), (D) - (IV)
- (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
- (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:

- (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
- (A) - (I), (B) - (III), (C) - (II), (D) - (IV)
- (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
- (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

31 120031

Carbohydrates are

- Organic compounds with a minimum three number of carbons
- Polyhydroxy alcohols
- Hydrates of carbon
- Polyhydroxy aldehydes or ketone

- A, B and D only
- A, C and D only
- B, C and D only
- A, B and C only

A1 : 1

A2 : 2

A3 : 3

4.0 1.00

		A4 : 4		
Objective Question				
32	120032	<p>Which of the following explains the reducing end of polysaccharides?</p> <p>(A). End with free epimeric carbon</p> <p>(B). End with free anomeric carbon</p> <p>(C). End with free carboxylic carbon</p> <p>(D). End with free carbonyl carbon</p> <p>Choose the correct answer from the options given below:</p> <p>1. (A) and (D) only.</p> <p>2. (B) and (D) only.</p> <p>3. (B) and (C) only.</p> <p>4. (C) and (D) only.</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
Objective Question				
33	120033	<p>Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).</p> <p>Assertion (A) : Glycosamino glycans are having characteristically high negative charge in nature</p> <p>Reason (R) : Gycosaminoglycans are made up of alternating units of uronic acids and amino sugar with sulfated ester.</p> <p>In light of the above statements, choose the correct answer from the options given below.</p> <p>1. Both (A) and (R) are true and (R) is the correct explanation of (A).</p> <p>2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A).</p> <p>3. (A) is true but (R) is false.</p> <p>4. (A) is false but (R) is true.</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	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:

- (A) - (II), (B) - (III), (C) - (I), (D) - (IV)
- (A) - (IV), (B) - (III), (C) - (I), (D) - (II)
- (A) - (III), (B) - (IV), (C) - (II), (D) - (I)
- (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	4.0	1.00
		<ol style="list-style-type: none"> Differential centrifugation Ultra centrifugation High speed centrifugation Isopycnic centrifugation 		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

36	120036		4.0	1.00
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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	<p>The average molecular weight of amino acid in a peptide is</p> <ol style="list-style-type: none"> 1. 138 daltons 2. 128 daltons 3. 110 daltons 4. 120 daltons <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
Objective Question				
40	120040	<p>Transport of ammonia from skeletal muscle to the liver takes place through</p> <ol style="list-style-type: none"> 1. Cori cycle 2. Aspartate-Arginino succinate shuttle 3. Glucose-Alanine cycle 4. Citric Acid cycle <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
Objective Question				
41	120041	<p>In ion-exchange chromatography, the charge on the anion exchangers is</p> <ol style="list-style-type: none"> 1. Positive 2. Negative 3. Zwitter ionic 4. Iso-ionic <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00

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

Objective Question				
43	120043	<p>In SDS-PAGE, the proteins are separated mainly based on</p> <p>1. Molecular sieving effect</p> <p>2. Charge/mass ratio</p> <p>3. Partition principle</p> <p>4. Adsorption principle</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	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	<p>Identify the correct order of events of enzyme catalyzed reaction.</p> <p>(A). Formation of ES complex.</p> <p>(B). Formation of EP complex.</p> <p>(C). Reaction between E and S.</p> <p>(D). Release of P and E</p> <p>Choose the correct answer from the options given below:</p> <ol style="list-style-type: none"> 1. (B), (D), (C), (A). 2. (D), (A), (C), (B). 3. (C), (A), (B), (D). 4. (C), (B), (D), (A). <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

50	120050		4.0	1.00
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Which of the following statements are correct for K_m - Michaelis Menten Constant?

- (A). K_m has unit of concentration.
- (B). K_m 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.	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

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

A3 : 3

A4 : 4

Objective Question

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

Objective Question

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

Objective Question

55	120055		4.0	1.00
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Which of the following statements are correct with reference to the ionic forms at physiological pH

- (A). Phosphatidyl ethanolamine is zwitter ionic.
- (B). Phosphatidyl choline is cationic
- (C). Phosphatidyl 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	<p>Which of the following can act as intracellular signal molecules?</p> <ul style="list-style-type: none"> (A). Phosphatidyl inositol (B). Sphingomyelin (C). Plasmalogens (D). Ceramide <p>Choose the correct answer from the options given below:</p> <ol style="list-style-type: none"> 1. (A), (B) and (D) only. 2. (A), (C) and (D) only. 3. (B), (C) and (D) only. 4. (A), (B), (C) and (D). <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

57	120057		4.0	1.00
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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	<p>Insulin receptor is</p> <ol style="list-style-type: none"> 'Thr' specific protein kinase 'Ser' specific protein kinase 'Tyr' specific protein kinase 'His' specific protein kinase <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00

Objective Question				
60	120060	<p>Which of the following uses cAMP as a second messenger.</p> <p>(A). Corticotropin</p> <p>(B). Dopamine</p> <p>(C). Histamine</p> <p>(D). Progesterone</p> <p>Choose the correct answer from the options given below:</p> <ol style="list-style-type: none"> (A), (B) and (C) only. (A), (B) and (D) only. (A) and (D) only (B), (C) and (D) only. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00

Objective Question				
61	120061	<p>Credit for discovering Rh blood antigen is given to</p> <ol style="list-style-type: none"> Rhesus Macaque Karl Landsteiner Paul Eherlich Peter Doherty <p>A1 : 1</p> <p>A2 : 2</p>	4.0	1.00

A3 : 3

A4 : 4

Objective Question

62	120062	<p>Bursa equivalent organ in human being regarding lymphocytes, is -</p> <ol style="list-style-type: none"> 1. Thymus 2. Spleen 3. Payer's patches 4. Bone marrow <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

63	120063	<p>J-polypeptide chain is structural component of –</p> <p>(A).IgG</p> <p>(B).IgA</p> <p>(C).IgM</p> <p>(D).IgD</p> <p>Choose the correct answer from the options given below:</p> <ol style="list-style-type: none"> 1. Only (C) 2. (A), (B) and (D) only. 3. Only (B). 4. (B), and (C) only. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

64	120064		4.0	1.00
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		<p>Which of these cells is CD8 positive cell?</p> <ol style="list-style-type: none"> 1. Macrophage 2. Neutrophil 3. T suppressor cell 4. T helper cell <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>		
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Objective Question

65	120065	<p>Crazy chick disease of chicks occurs due to deficiency of -</p> <ol style="list-style-type: none"> 1. Thiamine 2. Niacin 3. Tocopherol 4. Riboflavin <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

66	120066	<p>Which of these rings is found in structure of vitamin K?</p> <ol style="list-style-type: none"> 1. Naphthoquinone 2. Iso-alloxazine 3. Chromane 4. Pyridine <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

67	120067		4.0	1.00
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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

4.0 1.00

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

Objective Question

69 120069

4.0 1.00

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 1 α hydroxylase 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

A3 : 3

A4 : 4

Objective Question

70	120070	<p>Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).</p> <p>Assertion (A) : Bilateral cataract is very common in patients with uncontrolled diabetes mellitus.</p> <p>Reason (R) : It occurs due to glycosylation of α-crystallin protein of lens.</p> <p>In light of the above statements, choose the <i>correct</i> answer from the options given below.</p> <ol style="list-style-type: none"> Both (A) and (R) are true and (R) is the correct explanation of (A). Both (A) and (R) are true but (R) is NOT the correct explanation of (A). (A) is true but (R) is false. (A) is false but (R) is true. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

71	120071	<p>Which of these is/are helps in reabsorption of water from kidneys?</p> <p>(A).ADH hormone</p> <p>(B).Aldosterone hormone</p> <p>(C).Kinins</p> <p>(D).PGE2</p> <p>Choose the correct answer from the options given below:</p> <ol style="list-style-type: none"> (B) and (D) only. (C) and (D) only. (A), (B) & (D) (A) and (B) only. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

72	120072		4.0	1.00
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Arrange the following statements in proper sequence:

- (A).Hyperventilation and removal of excess CO₂ 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 CO₂
- (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 CO₂ into lungs due to

- (A).Low pCO₂
- (B).Higher pO₂
- (C).High affinity for O₂
- (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	<p>CRH is an example of –</p> <ol style="list-style-type: none"> 1. Steroid hormone 2. Amino acid derivative 3. Peptide hormone 4. Cytokine <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

76	120076		4.0	1.00
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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	<p>Given below are two statements:</p> <p>Statement (I): Wilson's disease occurs due to accumulation of copper in liver and brain.</p> <p>Statement (II): It occurs due to defect in gene coding for copper binding ATPs that is required for excretion of copper from liver cells.</p> <p>In light of the above statements, choose the <i>most appropriate</i> answer from the options given below.</p> <ol style="list-style-type: none"> 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. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

78	120078	<p>Which of these function as xanthine oxidase inhibitor?</p> <ol style="list-style-type: none"> 1. Cyclo-oxygenase 2. Lipo-oxygenase 3. Allopurinol 4. Dimethyl sulfoxide 	4.0	1.00
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		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

79	120079	<p>Which of the following are responsible for vomition?</p> <p>(A). Apomorphine</p> <p>(B). Allopurinol</p> <p>(C). Toxic gastric irritation</p> <p>(D). Pylorous obstruction</p> <p>Choose the correct answer from the options given below:</p> <p>1. (A), (C) and (D) only.</p> <p>2. (B), (C) and (D) only.</p> <p>3. (A), (B), (C) and (D).</p> <p>4. (B) only.</p>	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

80	120080	<p>Acute rumen indigestion occurs due to accumulation of –</p> <p>1. d-Lactate</p> <p>2. l-Lactate</p> <p>3. Both d and l-Lactate</p> <p>4. Ammonia gas</p>	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

81	120081		4.0	1.00
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Which of these is used to prevent the urea poisoning in ruminants?

1. HCOOH
2. CH₃COOH
3. CH₃COCOOH
4. C₂H₅COOH

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

82	120082	<p>Indirect ELISA, also known as–</p> <ol style="list-style-type: none"> 1. Double antibody sandwich (DAS) ELISA 2. Competitive ELISA 3. Triple antibody sandwich (TAS) ELISA 4. dot ELISA <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

83	120083	<p>Which of these statements is/are correct about competitive ELISA?</p> <p>(A).It can be used for accurate measurement of the circulating level of the hormone.</p> <p>(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.</p> <p>(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.</p> <p>(D).The more natural antigen bound to the antigen, the higher the signal will be generated.</p> <p>Choose the correct answer from the options given below:</p> <ol style="list-style-type: none"> 1. (A), (B) and (D) only. 2. (A), (B) and (C) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. <p>A1 : 1</p>	4.0	1.00
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A2 : 2

A3 : 3

A4 : 4

Objective Question

84	120084	<p>During Gastric Dilatation Volvulus (GDV) in dogs, the myocardial depressant factor is released from –</p> <ol style="list-style-type: none"> 1. Perforated stomach 2. Degenerated liver 3. Ischemic pancreatic tissue 4. Large intestine <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

85	120085	<p>Which of these is a best indicator of alcoholic cirrhosis?</p> <ol style="list-style-type: none"> 1. GGT 2. ALT 3. AST 4. Alkaline phosphatase <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

86	120086		4.0	1.00
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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 CO₂.

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	<p>Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).</p> <p>Assertion (A) : Milk fever occurs just after parturition in high yielding cows.</p> <p>Reason (R) : Just after parturition drain of most the blood glucose for the synthesis of lactose.</p> <p>In light of the above statements, choose the <i>most appropriate</i> answer from the options given below .</p> <ol style="list-style-type: none"> 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. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

88	120088		4.0	1.00
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β -endorphins are synthesized from –

- (A) Gonadotrophic cells of anterior lobe of adenohypophysis.
- (B) Gonadotrophic cells of intermediate lobe of adenohypophysis.
- (C) Corticotrophic cells of anterior lobe of adenohypophysis.
- (D) Corticotrophic 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 -estradiol
- 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	<p>The biomolecules which contain a nitrogenous base in their structure</p> <p>(A).Adenosine triphosphate (ATP)</p> <p>(B).Uridine diphosphogalactose</p> <p>(C).Cytidine 5'-triphosphate</p> <p>(D).CDP-diacylglycerol</p> <p>Choose the correct answer from the options given below:</p> <p>1. (A), (B) and (D) only.</p> <p>2. (A), (C) and (D) only.</p> <p>3. (A), (B), (C) and (D).</p> <p>4. (B), (C) and (D) only.</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

92	120092	<p>Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).</p> <p>Assertion (A) : An eukaryotic polypeptide chain containing 100 amino acid residues is coded by a gene containing morethan 300 nucleotide bases.</p> <p>Reason (R) : Eukaryotic gene designated for a protein contain both the coding and noncoding part.</p> <p>In light of the above statements, choose the correct answer from the options given below.</p> <p>1. Both (A) and (R) are true and (R) is the correct explanation of (A).</p> <p>2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A).</p> <p>3. (A) is true but (R) is false.</p> <p>4. (A) is false but (R) is true.</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

93	120093		4.0	1.00
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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 double stranded DNA and another half become RNA

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

94	120094	<p>Telomers are present in</p> <p>(A).E. coli chromosome</p> <p>(B).Yeast Chromosome</p> <p>(C).Human Chromosome</p> <p>(D).Molds chromosome</p> <p>Choose the correct answer from the options given below:</p> <ol style="list-style-type: none"> 1. (A), (B) and (D) only. 2. (A), (B) and (C) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

95	120095		4.0	1.00
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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 separated 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	<p>Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).</p> <p>Assertion (A) : In RNA molecule guanine content is equal to the cytosine content.</p> <p>Reason (R) : Mostly RNAs are single stranded molecule.</p> <p>In light of the above statements, choose the <i>correct</i> answer from the options given below.</p> <ol style="list-style-type: none"> 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. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

97	120097		4.0	1.00
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Which of the following statements are true for process of translation?

- (A). Either one strand of a double stranded DNA directs the synthesis of mRNA.
- (B). Base sequence of transcribed RNA is complimentary to that of DNA strand.
- (C). tRNAs molecules 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	<p>Watson and Crick base pairing is found in</p> <ol style="list-style-type: none"> 1. tRNA molecules 2. Eukaryotic DNA molecules 3. rRNA molecules 4. mRNA molecules <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

99	120099	<p>Covalently modified bases are found in</p> <ol style="list-style-type: none"> 1. tRNA 2. hnRNA 3. snRNA 4. rRNA <p>A1 : 1</p>	4.0	1.00
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A2 : 2

A3 : 3

A4 : 4

Objective Question

100 120100

4.0 1.00

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

Objective Question

101	120101	<p>Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).</p> <p>Assertion (A) : Restriction endonuclease is used to cut DNA molecules for cloning.</p> <p>Reason (R) : Restriction endonuclease enzyme cut DNA molecule of any source into unique short pieces in a sequence specific manner.</p> <p>In light of the above statements, choose the <i>correct</i> answer from the options given below.</p> <ol style="list-style-type: none"> Both (A) and (R) are true and (R) is the correct explanation of (A). Both (A) and (R) are true but (R) is NOT the correct explanation of (A). (A) is true but (R) is false. (A) is false but (R) is true. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

102	120102	<p>The viral RNA inducible interferon system provides the molecular defense against</p> <ol style="list-style-type: none"> RNA viruses Single stranded DNA viruses Double stranded DNA viruses Bacteria <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

103	120103	<p>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</p> <ol style="list-style-type: none"> Six fragments Seven fragments Eight fragments Nine fragments <p>A1 : 1</p> <p>A2 : 2</p>	4.0	1.00
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A3 : 3

A4 : 4

Objective Question

104 120104

4.0

1.00

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

Objective Question

105 120105

4.0

1.00

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

Objective Question

106	120106	<p>Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).</p> <p>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.</p> <p>Reason (R) : Denaturation of DNA increases the absorbance of UV rays at 260nm.</p> <p>In light of the above statements, choose the <i>correct</i> answer from the options given below.</p> <ol style="list-style-type: none"> Both (A) and (R) are true and (R) is the correct explanation of (A). Both (A) and (R) are true but (R) is NOT the correct explanation of (A). (A) is true but (R) is false. (A) is false but (R) is true. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

107	120107	<p>Which of the following statements are correct for a regulatory sequence in a gene?</p> <p>(A). Provide signal that denote beginning of a gene.</p> <p>(B). Provide signal that denote end of a gene.</p> <p>(C). Influence transcription.</p> <p>(D). Function as initiation point for replication.</p> <p>Choose the correct answer from the options given below:</p> <ol style="list-style-type: none"> (A), (B) and (C) only. (A), (B) and (D) only. (A), (B), (C) and (D). (B), (C) and (D) only. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

108	120108		4.0	1.00
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The antibiotics are sensitive to β -lactamase enzyme

- (A). Penicillin
- (B). Ampicillin
- (C). Amoxicillin
- (D). Erythromycin

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

4.0 1.00

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

Objective Question

110 120110

4.0 1.00

The eukaryotic histones which are nearly identical in amino acid sequence

- (A). H₁
- (B). H₂A
- (C). H₃
- (D). H₄

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

4.0 1.00

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

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

4.0 1.00

Basic function of a fermentor is

1. To sterilize 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

Objective Question

114 120114

4.0 1.00

Vaccine was invented by

1. Louis Pasteur
2. Edward Jenner
3. Robert Downey
4. Von Behring

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

115	120115	<p>According to Wobble hypothesis GCl present in anticodon arm of tRNA can bind to triplet codons present in mRNA are</p> <p>(A). 5' CGA3'</p> <p>(B). 3'CGA5'</p> <p>(C). 5' CGU3'</p> <p>(D). 3' CGU 5'</p> <p>Choose the correct answer from the options given below:</p> <p>1. (A) and (D) only.</p> <p>2. (A) and (C) only.</p> <p>3. (A), (B), (C) and (D).</p> <p>4. (B), (C) and (D) only.</p>	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

116	120116	<p>Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).</p> <p>Assertion (A) : Tetracycline inhibit protein synthesis in bacteria.</p> <p>Reason (R) : It prevent binding of aminoacyl tRNA to A-site of active ribosomal subunit.</p> <p>In light of the above statements, choose the correct answer from the options given below.</p> <p>1. Both (A) and (R) are true and (R) is the correct explanation of (A).</p> <p>2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A).</p> <p>3. (A) is true but (R) is false.</p> <p>4. (A) is false but (R) is true.</p>	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

117	120117	<p>Which of the following are needed for polymerase chain reaction?</p> <p>(A). Template DNA segment of interest</p> <p>(B). Oligonucleotide primers</p> <p>(C). Taq DNA polymerase</p> <p>(D). Ribonucleotide triphosphates</p> <p>Choose the correct answer from the options given below:</p> <p>1. (A), (B) and (C) only.</p> <p>2. (A), (B) and (D) only.</p> <p>3. (A), (B), (C) and (D).</p> <p>4. (B), (C) and (D) only.</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

118	120118	<p>Which of the following statements are correct for micro RNA (miRNA)?</p> <p>(A). Noncoding RNA</p> <p>(B). Regulates mRNA function</p> <p>(C). Involve in gene regulation</p> <p>(D). miRNAs are found in eukaryotes</p> <p>Choose the correct answer from the options given below:</p> <p>1. (A), (B) and (C) only.</p> <p>2. (A), (B) and (D) only.</p> <p>3. (A), (B), (C) and (D).</p> <p>4. (B), (C) and (D) only.</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	4.0	1.00
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Objective Question

119	120119		4.0	1.00
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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

4.0 1.00

Which of the following statements are correct 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