

PREVIEW QUESTION BANK

Module Name : Veterinary Biochemistry - 32-ENG
Exam Date : 29-Jun-2024 Batch : 14:30-16:30

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	201	Movement of DNA from one bacterium to another through a tubular bridge or pilus: 1. Conjugation 2. Transposition 3. Transfection 4. Transduction A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
2	202	Which of the following is responsible for eliminating toxic oxygen by-products from cells? 1. Mitochondria 2. Golgi complex 3. Peroxisomes 4. Chloroplasts A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
3	203	A form of multiple parasitism in which a parasite preferentially attacks a host that is already parasitized by another species is known as 1. Cleptoparasitism 2. Ectoparasitoid 3. Obligate parasitism 4. Superparasitism A1 : 1	4.0	1.00

		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
4	204	For mass multiplication of DD-136 nematode, the common host used is 1. Silk moth 2. Fruit sucking moth 3. Codling moth 4. Lesser wax moth A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
5	205	Chlorpyrifos methyl is effective against stored product insects except 1. <i>Rhizopertha dominica</i> 2. <i>Tribolium castaneum</i> 3. <i>Caryedon serratus</i> 4. <i>Oryzaephilus surinamensis</i> A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
6	206	Which of the following insects often cause inhalational allergies in human following large emergence of adult insects 1. Stick insects 2. May flies 3. Ear wigs 4. Preying mantis A1 : 1 A2 : 2	4.0	1.00

A3 : 3

A4 : 4

Objective Question

7	207	Given below are two statements: Statement (I): Climate is a weather condition related to smaller areas at a given place and at a given time, Statement (II): Weather is a condition of atmosphere at a given place and at a given time In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. - Both Statement (I) and Statement (II) are correct. - Both Statement (I) and Statement (II) are incorrect. - Statement (I) is correct but Statement (II) is incorrect. - Statement (I) is incorrect but Statement (II) is correct. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

8	208	The local name of cyclone in Phillippines is - Hurricane - Cyclone - Baquo - Typhoon A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

9	209		4.0	1.00
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Which one of the following are secondary tillage implements?

- (A). Subsoiler
- (B). Cultivator
- (C). Disc harrow
- (D). Wetland plough

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

10 210

_____ is the most suitable, drought resistant and persistent grass?

- 1. *Alylosia sp.*
- 2. *Cenchrus ciliaris*
- 3. *Stylosanthes hamata*
- 4. *Sorghum bicolor*

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

11 211

The rainfed area in India is approximately

- 1. 30 mha
- 2. 40 mha
- 3. 57 mha
- 4. 70 mha

A1 : 1

A2 : 2

4.0

1.00

A3 : 3

A4 : 4

Objective Question

12	212	Which nutrient is often a limiting factor in agricultural production? 1. Nitrogen 2. Carbon 3. Oxygen 4. Hydrogen A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

13	213	What is a potential disadvantage of agroforestry systems? 1. Increased soil erosion 2. Decreased carbon sequestration 3. Reduced biodiversity 4. Enhanced susceptibility to pests A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

14	214	Pungency in mustard oil is due to 1. Amino acid 2. Allyl isothiocyanate 3. Erusic acid 4. Oxalic acid A1 : 1 A2 : 2	4.0	1.00
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		A3 : 3		
		A4 : 4		
Objective Question				
15	215	Sesamum belongs to the family 1. Chenopodiaceae 2. Papilionaceae 3. Leguminosae 4. Pedaliaceae A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
16	216	Dark period is critical in which type of plant? 1. Short day plant 2. Long day plant 3. Day neutral plant 4. All the options A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
17	217	Which of the following is NOT a significant contributor to greenhouse gas emissions from livestock farming? 1. Carbon dioxide 2. Methane 3. Nitrous oxide 4. Ammonia A1 : 1 A2 : 2 A3 : 3	4.0	1.00

A4 : 4

Objective Question

18	218	Fe deficiency is mostly seen in crops growing on 1. Calcareous or alkaline soils 2. Salt affected soils 3. Acidic soils 4. Neutral soils A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

19	219	EDV (Essentially Derived Varieties) are those which are derived from: 1. crossing two commercially known varieties 2. hybrid introduced from other countries 3. existing variety through genetic engineering or mutation 4. crossing commercially known variety with its wild relative A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

20	220	What is the role of "companion planting" in agriculture? 1. Enhancing soil fertility through crop rotation 2. Growing different crop species together to deter pests 3. Cultivating plants in hydroponic system 4. Increasing soil compaction through cover cropping A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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		A4 : 4		
Objective Question				
21	1801	Which one is not true about nucleolus 1. Cell may have 1 to 3 nucleoli 2. Makes ribosomes 3. Takes part in cell division 4. Is simply an accumulation of large amount of RNA and proteins found in ribosomes A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
22	1802	What is the main role of carbohydrates in cell membrane? 1. Transportation 2. Adhesion 3. Recognition 4. Signal transduction A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
23	1803	Erythropoiesis occurs in following organs (A). Liver (B). Spleen (C). Bone Marrow Choose the correct answer from the options given below: 1. (A), (B) and (C). 2. (A), and (B) only. 3. (A), and (C) only. 4. (B), and (C) only. A1 : 1	4.0	1.00

		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
24	1804	Edema may occur due to following except 1. Increased capillary pressure 2. Increased capillary permeability 3. Increased concentration of plasma proteins 4. Obstruction of lymphatics A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
25	1805	Venous blood generally has pO₂ of about 1. 40 mmHg 2. 100 mmHg 3. 110 mmHg 4. < 30mm Hg A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
26	1806	A layer of epithelial cells surrounding the outer surface of the capillary basement membrane in a nephron 1. Mesangial cells 2. Podocytes 3. Endothelial cells 4. JG cells A1 : 1 A2 : 2	4.0	1.00

A3 : 3

A4 : 4

Objective Question

27	1807	Maximum absorption of short-chain fatty acids produced by bacteria occurs in the 1. Stomach 2. Duodenum 3. Jejunum 4. Colon A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

28	1808	Hypsodont teeth are present in 1. Dog 2. Cat 3. Horse 4. Human A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

29	1809	Efficiency of muscle contraction is 1. 10% 2. 20% 3. 30% 4. 40% A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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A4 : 4

Objective Question

30 1810

4.0

1.00

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

List-I	List-II
(A).Protonope	(I). loss of green cones
(B).Deuteranope	(II). acute and detailed vision
(C).Fovea	(III). normal vision
(D). Emmetropia	(IV).loss of red cones

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

31 1811

4.0

1.00

Active form of vitamin D is released from

- Liver
- Skin
- Intestine
- Kidney

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

32 1812

4.0

1.00

What is the correct sequence of ejaculatory volume

1. Boar > dog > horse > bull
2. Dog > boar > horse > bull
3. Boar > horse > dog > bull
4. Boar > dog > bull > horse

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

33 1813

Which one of the following animal is not a reflex ovulator?

1. Cat
2. Dog
3. Rabbit
4. Camel

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

34 1814

Which one is not a clone of sheep?

1. Megan
2. Xena
3. Dolly
4. Polly

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

35 1815

4.0 1.00

Among the following animals, Upper Critical Temperature (UCT) is highest in which of the following

1. Holstein Friesian (HF)
2. Haryana
3. Crossbred cattle
4. Jersey

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

36	1816	Inhibitor of Cysteine protease is 1. EDTA 2. PMSF 3. Cystatin C 4. N-acetyl cysteine A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

37	1817	Which isoenzyme of LDH is present in heart 1. MMMM 2. MMMH 3. HHHH 4. MMHH A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

38	1818		4.0	1.00
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		HHHH form of LDH catalyzes the reaction towards 1. Lactate to pyruvate 2. Pyruvate to Lactate 3. Glucose to Glucose-6-phosphate 4. Pyruvate to acetyl-CoA A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
39	1819	During the purification process, total activity of enzyme 1. Increases 2. Decreases 3. Remains constant 4. Increases or decreases A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
40	1820	Identify Nickel containing enzyme? 1. Urease 2. Carbonic anhydrase 3. Lactate dehydrogenase 4. Lysozyme A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
41	1821		4.0	1.00

In allosteric enzymes, the location of catalytic and regulatory sites are_____.

1. Same
2. Different
3. Can be same or different
4. Mostly same

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

42	1822	Which vitamin is usually absent in the food from plant sources?	4.0	1.00
1. Thiamine 2. Ribofalvin 3. Vitamin B12 4. Vitamin C				
A1 : 1				
A2 : 2				
A3 : 3				
A4 : 4				

Objective Question

43	1823	In gel filtration chromatography mobile phase is	4.0	1.00
1. Solid 2. Liquid 3. Gel 4. Gaseous				
A1 : 1				
A2 : 2				
A3 : 3				
A4 : 4				

Objective Question

44	1824		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 LDH isoenzyme M4 functions optimally in the anaerobic environment of skeletal muscles.

Reason(R): The Skeletal muscles are designed to work anaerobically so as M4. M4 converts pyruvate to lactate, so glycolysis can be operated continuously.

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

45 1825

4.0 1.00

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

Assertion (A): Gel filtration chromatography can be used to isolate proteins on the basis of their molecular weight.

Reason(R): Smaller proteins enter into the beads, so spend additional time in column and elute at a later stage.

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

46 1826

4.0 1.00

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

A: A trans-fatty acids is structurally similar to a saturated fatty acid.

R: The kinks in the fatty acid molecules determine whether the material is solid or liquid at room temperature.

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

47 1827

4.0 1.00

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

A: Under aerobic conditions, TCA cycle is the primary source of energy.

R: TCA cycle is followed by electron flow through the respiratory chain generates more ATPs.

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

48 1828

4.0 1.00

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

A : The increase in concentration of substrate can alleviate inhibition of competitive enzymes.

R: Allosteric proteins have similar regulatory and substrate binding functional sites.

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

49	1829	Amino acids which contain hydroxyl group are (A).Serine (B).Threonine (C).Mehionine (D).Cysteine Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (B) 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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Objective Question

50	1830		4.0	1.00
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Aromatic amino acids are

- (A).Aspartic acid
- (B).Glutamic acid
- (C).Tyrosine
- (D).Tryptophan

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. (C) and (D) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

51 1831

Hydrophobic amino acids are

- (A).Isoleucine
- (B).Leucine
- (C).Arginine
- (D).Aspartic acid

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

4.0 1.00

Objective Question

52 1832

4.0 1.00

Identify coenzymes

- (A).NAD
(B).FAD
(C).LDH
(D).Proline

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

53 1833

4.0 1.00

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

A : Vitamin E serves as an antioxidant.

R: Vitamin E can quench free radicals.

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

54 1834

4.0 1.00

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

A : Hormones binds to receptors present on cell surface or inside the cells

R: All hormones are protein in nature

Read the statements and choose the correct answer

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

55	1835	According to the current classification these are the included in enzyme classes (A).Hydrolases (B).Transferases (C).Isomerases (D).Ligases 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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Objective Question

56	1836		4.0	1.00
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The classification of genes based on protein domains revealed that _____.

1. human genome contains no protein domains that are unique to humans.
2. human genome contains a small number of protein domains that are unique to vertebrates.
3. human genome contains many protein domains that are unique to humans.
4. protein domains for the human genome are unique to humans and not present in other organisms.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

57 1837

Proteins can bind to DNA at specific sequences by _____.

1. interacting with the sugar-phosphate backbone.
2. opening up the double helix and forming bonds with the bases.
3. interacting with the bases through the histone proteins.
4. interacting with the bases in the major and minor grooves of the double helix.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

58 1838

Which of the following statements is incorrect?

1. Glycogen is formed from units that include glucose.
2. Cellulose is formed from units that include glucose.
3. Lactose is formed from units that include ribose.
4. Adenosine is formed from units that include ribose.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

59 1839

4.0 1.00

Differentiation refers to _____.

1. alterations in genome expression that do not change the proteome of the cell.
2. transient changes in the genome activity of a cell in response to extracellular factors.
3. a coordinated series of changes that occurs during the life cycle of a cell.
4. adoption of a specialized physiological role by a cell.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

60 1840

The main phospholipids in most animal cell membranes are the _____.

1. Phosphoglycerides.
2. Phosphosphingolipids.
3. Ceramide phosphorylipids.
4. Sphingomyelins.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

61 1841

What does an open reading frame (ORF) refer to?

1. All of the nucleotides of a gene that are transcribed into mRNA.
2. The nucleotides of a gene that make up the codons specifying amino acids.
3. The nucleotides of an mRNA molecule before the introns have been removed.
4. The amino acid sequence of a polypeptide.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

62 1842

4.0 1.00

Which type of amino acid can get acetylated within the N-terminal regions of histone proteins?

1. Arginine.
2. Lysine.
3. Serine.
4. Tyrosine.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

63 1843

DNA mutation can arise from _____.

1. Okasaki Fragments.
2. Insertion or deletion of one or a few nucleotides.
3. Nick translation.
4. Binding of DNA polymerase at the site of promoter of a non-specific gene.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

64 1844

Which of the following is not a DNA repair system?

1. Excision repair.
2. Mismatch repair.
3. Nonhomologous end-joining.
4. Branch migration.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

65 1845

4.0 1.00

Why is actin used as a control for transcriptome studies in vertebrates?

1. It is used as a negative control as the gene is not expressed in vertebrates.
2. It is used as a negative control as the mRNA for actin is rapidly degraded.
3. It is used as a positive control as actin expression is fairly constant in different cell types.
4. It is used as a positive control as it is the most highly expressed gene in all cell types.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

66 1846

Homopolymers can be added to DNA strands by using _____.

1. DNA polymerase.
2. Terminal deoxynucleotidyltransferase.
3. Vaccinia DNA topoisomerase.
4. Phosphodiesterase.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

67 1847

Lymphocytes in whole blood can be stimulated with _____.

1. Saponin.
2. Phytohemagglutinin.
3. Mitomycin C.
4. Cytochalasin B.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

68 1848

4.0 1.00

Somatic cells can be synchronized to the G1 stage of the cell cycle by treatment with _____.

1. Nocodazole.
2. Colchicine.
3. Lovastatin.
4. Mimosine.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

69 1849

DNA microinjection into embryos for generation of transgenic animals can best be done at _____.

1. One-cell-stage.
2. Two-cell-stage.
3. Blastocyst-stage.
4. MII-stage.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

70 1850

Induced Pluripotent Stem cells (iPSCs) can be produced by transfection of somatic cells with _____ genes.

1. Pou5f1, Sox2, Nanog, Lin28.
2. Oct4, Sox2, Klf1, nMyc.
3. Oct4, Sox9, Nanog, Lim1.
4. Pou5f1, Sox9, Klf1, cMyc.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

71 1001651

4.0 1.00

Sodium/Potassium ATPase is the marker enzyme for_____.

1. Plasma membrane
2. Mitochondria
3. Lysosomes
4. Cytosol

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

72	1001652	Out of following, which monosaccharide contain minimum numbers of asymmetric carbon atoms ? 1. Glyceraldehyde 2. Glucose 3. Dihydroxyacetone 4. Fructose A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

73	1001653	In aqueous solution, the 1/3rd of glucose exists as_____. 1. α-D-glucopyranose 2. β-D- glucopyranose 3. Linear 4. Glucofuranose A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

74	1001654		4.0	1.00
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		Which carbon in glucose is anomeric carbon ? 1. Carbon 1 2. Carbon 2 3. Carbon 3 4. Carbon 4 A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
75	1001655	Identify a ketose sugar. 1. Glucose 2. Galactose 3. Mannose 4. Fructose A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
76	1001656	Select structural polysaccharide. 1. Starch 2. Glycogen 3. Amylose 4. Cellulose A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
77	1001657		4.0	1.00

The rigid component of bacterial cell walls is composed of alternating units of N-acetylglucosamine and N-acetylmuramic acid which are linked by_____.

1. α 1- 4 linkages
2. α 1- 6 linkages
3. β 1- 4 linkages
4. β 1- 6 linkages

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

78	1001658	Dextran is made up of poly-D-glucose, linked by_____ linkages (major linkages). 1. α1- 4 linkages 2. α1- 6 linkages 3. β1- 4 linkages 4. β 1- 6 linkages A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

79	1001659	Identify glycosaminoglycans. 1. Hyaluronic acid 2. Cellulose 3. Peptidoglycan 4. Inulin A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

80	1001660	Plasmalogens are found in_____. 1. Brain and Muscle tissues 2. RBCs 3. Intestinal wall 4. Liver A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

81	1001661	The major glucose transporter present in RBCs is_____. 1. GLUT 1 2. GLUT 3 3. GLUT 4 4. GLUT 5 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

82	1001662	The anticoagulant which can inhibit glycolysis is _____. 1. EDTA 2. Citrate 3. Sodium Fluoride 4. Heparin A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

83	1001663	Under anaerobic conditions, the end product of glycolysis would be_____. 1. Acetyl CoA 2. Oxaloacetate 3. Lactate 4. Malate A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

84	1001664	In glyoxalate shunt, Isocitrate converts into_____. 1. Acetyl CoA 2. Alpha- ketogluterate 3. Citrate 4. Malate A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

85	1001665	Cori cycle is the_____. 1. Transport of lactate from muscles to liver and transport of glucose from liver to muscles 2. Transport of glucose from muscles to liver and transport of lactate from liver to muscles 3. Transport of lactate and glucose from muscles to liver 4. Transport of lactate and glucose from liver to muscles A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

86	1001666	_____ muscles has higher numbers of mitochondria. 1. White muscles 2. Red muscles 3. Yellow muscles 4. Mitochondrial numbers are same in all muscles A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

87	1001667	The concentration of potassium in intracellular fluid is about 1. 140 m mol / L 2. 10 m mol / L 3. 20 m mol / L 4. 30 m mol / L A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

88	1001668	Out of following, identify the most sensitive stain for proteins 1. Coomassie Brilliant Blue R-250 2. Amido Black 3. Coomassie Brilliant Blue G-250 4. Silver stain A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

89	1001669	Mass/Charge (m/z) ratio is utilized in 1. Spectrometry 2. Spectrofluorimetry 3. Colorimetry 4. Mass spectrometry A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

90	1001670	In phase one reaction of metabolism of xenobiotics, the reducing power is provided by_____. 1. NADPH 2. NADH 3. ATP 4. GTP A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

91	1001671	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). In the questions given below, two statements marked as Assertion (A) and Reason (R). A: A glycogen molecule has only one non-reducing end and many reducing ends. R: Degradative enzymes act only at nonreducing ends so can work simultaneously on the many branches, speeding the conversion of the polymer to monosaccharides. In light of the above statements, choose the <i>most appropriate</i> 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	4.0	1.00
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A2 : 2

A3 : 3

A4 : 4

Objective Question

92	1001672	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Inulin can be used for determination of glomerular filtration rate. Reason (R) : Inulin cannot be digested by enzymes of digestive tract In light of the above statements, choose the <i>most appropriate</i> answer from the options given below . - Both (A) and (R) are correct and (R) is the correct explanation of (A). - Both (A) and (R) are correct but (R) is NOT the correct explanation of (A). (A) is correct but (R) is not correct. (A) is not correct but (R) is correct. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

93	1001673	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Vitamin C is important for Calcium metabolism Reason (R) : Blood Calcium levels is regulated by Vitamin C In light of the above statements, choose the <i>most appropriate</i> answer from the options given below . - Both (A) and (R) are correct and (R) is the correct explanation of (A). - Both (A) and (R) are correct but (R) is NOT the correct explanation of (A). (A) is correct but (R) is not correct. - Both (A) and (R) not correct. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

94	1001674		4.0	1.00
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In the questions given below, two statements marked as Assertion (A) and Reason (R).

A: DNA and protein sequencing are complementary techniques

R: Nucleotide sequence can be accurately deduced from the protein sequence.

Read the statements and choose the correct answer

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

95	1001675	In the questions given below, two statements marked as Assertion (A) and Reason (R). A: Heme group can be considered as a prosthetic group R: Heme group tightly binds to enzyme In light of the above statements, choose the <i>most appropriate</i> 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
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Objective Question

96	1001676		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).

A: Allosteric enzymes are evolved to fine tune the metabolic need of the tissues

R: The activity of allosteric enzymes is more sensitive to changes in substrate concentration near K_m than are Michaelis-Menten enzymes with the same V_{max}

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

97	1001677	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). A: Gluconeogenesis is not a simple reversal of glycolysis R: Several reactions of glycolysis are irreversible In light of the above statements, choose the <i>most appropriate</i> 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
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Objective Question

98	1001678		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).

A: Pentose phosphate pathway plays crucial role in rapidly dividing cells.

R: Pentose phosphate pathway generates six carbon sugars.

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

99	1001679	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). A: Vitamin A plays important role in vision R: Retinol is involved in visual cycle In light of the above statements, choose the <i>most appropriate</i> 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
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Objective Question

100	1001680		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).

A: Protein A can be used to isolate immunoglobulins

R: Protein A is present in cell wall of *Staphylococcus aureus*

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

101	1001681		4.0	1.00
What forces stabilize biomolecules ? (A).Hydrogen bond (B).Electrostatic interactions (C).Hydrophobic interactions (D).Van der Waals forces 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

102	1001682		4.0	1.00

Select structural polysaccharide.

- (A). Starch
- (B). Glycogen
- (C). Chitin
- (D). Peptidoglycan

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. (C) and (D) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

103 1001683

4.0 1.00

Identify Glycosaminoglycans (mucopolysaccharide)

- (A). Hyaluronic acid
- (B). Chondroitin sulfate
- (C). Cellulose
- (D). Chitin

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

104 1001684

4.0 1.00

Regarding Polypeptides, identify correct sentence(s)

- (A).Peptide bonds forms between amino and carboxyl groups
- (B).Peptide bond has partial double-bond character
- (C).Peptide can contain unusual amino acids
- (D).Polypeptides are always synthesized by the ribosomes

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

105	1001685	Select hormone(s) which affect the levels of blood glucose (A).LH (B).Glucagon (C).Cortisol (D).FSH 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) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

106	1001686		4.0	1.00
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The malate–aspartate shuttle which transport NADH operates in the mitochondria of:

- (A).Liver
- (B).Heart
- (C).Brain
- (D).Skeletal muscle

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

- 1. (A), (B) 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

107 1001687

4.0 1.00

Irreversible reactions in glycolysis are :

- (A).The conversion of glucose 6-phosphate to fructose 6-phosphate by phosphoglucose isomerase
- (B).The phosphorylation of fructose 6-phosphate to fructose 1,6-bisphosphate by phosphofructokinase-1
- (C).The conversion of phosphoenolpyruvate to pyruvate by pyruvate kinase
- (D). The conversion of pyruvate to lactate by lactate dehydrogenase

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

108 1001688

4.0 1.00

Endoplasmic targeting signal for polypeptide is _____.

- (A). Pro2-Lys2-A/a-Lys-Val
- (B). Ser -Lys-Leu
- (C). Lys-Asp-Glu-Leu
- (D). Asp-Glu-Leu-Lys

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	1001689	Vitamin B12-dependent enzymes are: (A). Methyl malonyl CoA mutase (B). Pyruvate dehydrogenase (C). Methionine synthase (D). Catalase 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. (A), (C) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

110	1001690		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) : Lipids are the preferred source of fuels

Reason (R) : Metabolism of lipids produces more ATP than of fat

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

111	1001691	Gel filtration chromatography can be used for (A).Purification of proteins on basis shape and size (B).Desalting (C).Analyzing protein-protein interactions (D).Purification of proteins on basis of their charge 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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Objective Question

112	1001692		4.0	1.00
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Select cation exchanger(s)

(A).DEAE-Sepharose

(B).Q-Sepharose

(C).Carboxy-Cellulose

(D).Carboxymethyl-Cellulose

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. (C) and (D) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

113 1001693

Phase II reaction of detoxification of xenobiotics is/ are

(A).Methylation

(B).Conjugation with Amino acids

(C).Conjugation with G-SH

(D).Hydroxylation

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

114 1001694

4.0 1.00

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

List-I	List-II
Enzyme	Coenzyme/cofactor
(A). Catalase	(I). Heme
(B). Transketolase	(II). Thiamine pyrophosphate
(C). Lactate dehydroginase	(III). NAD
(D). Glutathione reductase	(IV). FAD

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

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

115	1001695		4.0	1.00
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Match **List-I** with **List-II**

List-I	List-II
Enzyme	Category according to classification
(A). Chymotrypsin	(I). Hydrolase
(B). Fumerase	(II). Lyase
(C). Aminoacyl t-RNA sythetase	(III). Isomerase
(D). Triose phosphate isomerase	(IV). Ligase

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

116	1001696		4.0	1.00
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Match **List-I** with **List-II**

List-I	List-II
Enzyme	Localization
(A). LDH	(I). Plasma membrane
(B). Na-K ATPase	(II). Cytoplasm
(C). Glucose 6 phophatase	(III). Endoplasmic reticulum
(D). Catalase	(IV). Peroxisome

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

117	1001697		4.0	1.00
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Match **List-I** with **List-II**

List-I	List-II
Disease	Deficiency of
(A). Night blindness	(I). Vitamin D
(B). Scurvy	(II). Vitamin C
(C). Rickets	(III). Vitamin A
(D). Pellagra	(IV). Niacin

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) - (II), (C) - (I), (D) - (IV)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

118	1001698		4.0	1.00
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Match **List-I** with **List-II**

List-I	List-II
Hormone	Associated disease
(A). Growth Hormone	(I). Acromegaly
(B). Adrenocorticotrophic Hormone	(II). Diabetes Insipidus
(C). Antidiuretic Hormone	(III). Cushing's Syndrome
(D). Thyroid Hormone	(IV). Goiter

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

119	1001699		4.0	1.00
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Match **List-I** with **List-II**

List-I	List-II
TLR	Ligand
(A). TLR-2	(I). Lipoteichoic acid
(B). TLR-4	(II). LPS
(C). TLR-5	(III). Flagillin
(D). TLR-7	(IV). Single stranded RNA

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

120 1001700

Identify reactive nitrogen species

- (A).Superoxide
- (B).NO
- (C).Hydroxyl Radical
- (D).Peroxynitrite

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

- (A), (B) and (C) only.
- (A), (B) only.
- (A), (B), (D) Only.
- (B), (D) only.

A1 : 1

A2 : 2

A3 : 3

4.0 1.00

A4 : 4