

PREVIEW QUESTION BANK

Module Name : Veterinary Biochemistry-ENG
Exam Date : 09-Jul-2023 Batch : 14:30-16:30

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	2001	Which one of the following is not one of the features of parliamentary form of government? 1. Majority party rule 2. Collective Responsibility 3. Integrated and Independent Judiciary 4. Dissolution of the lower house A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
2	2002	Which of the following term implies that 'India is a neither a dependency nor a dominion of any other nation'? 1. Socialist 2. Sovereign 3. Secular 4. Democratic A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
3	2003	Which of the following form the maximum water composition on the earth's surface? 1. Oceans 2. Ice caps 3. Glaciers 4. Lakes A1 : 1 A2 : 2	4.0	1.00

A3 : 3

A4 : 4

Objective Question

4	2004	Which one of the following does not fall under the category of 'biomes'?	4.0	1.00
		1. Forest 2. Sky 3. Desert 4. Grassland		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

5	2005	IUCN publishes information about which of the following species as Red List of threatened species?	4.0	1.00
		1. Endangered Species 2. Vulnerable Species 3. Extinct Species 4. Rare Species		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

6	2006	Who was the first Indian to win an individual medal in Olympics?	4.0	1.00
		1. Milkha Singh 2. Karnam Malleshwari 3. P. T. Usha 4. K. D. Jadhav		
		A1 : 1		
		A2 : 2		
		A3 : 3		

		A4 : 4		
Objective Question				
7	2007	Who among the following reformers founded "Arya Samaj"? 1. Raja Ram Mohan Roy 2. Swami Dayananda Saraswati 3. Atmaram Pandurang 4. Ishwarchandra Vidyasagar A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
8	2008	What does "Triratna" mean in Buddhism? 1. Tripitaka 2. Buddha, Dhamma (dharma), Sangha 3. Satya, Ahimsa, Karuna 4. Sheel, Samadhi, Sangha A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
9	2009	Who started the Indian Reforms Association? 1. Narayan Guru 2. Swami Vivekananda 3. Krishna swami Aiyar 4. Keshav Chandra Sen A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				

10	2010	Consider the following statements (A). UN General Assembly has declared 2023 as the international year of millets (B). Odisha govt. ropes in FICCI to promote millets globally (C). Odisha Millets Mission is a flagship programme of the Odisha government to revive millets in farms and on plates Choose the correct answer from the options given below: 1. (A) and (B) only. 2. (B) and (C) only. 3. (A) and (C) only. 4. (A), (B) and (C). A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

11	2011	Phomopsis blight occurs in which of the following crops? 1. Brinjal 2. Bajra 3. Sugarcane 4. Potato A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

12	2012	Endemic pests can be described as? 1. Pest occurs in a few specific area. 2. Pest occurs in same area, year after year. 3. Pest occurs frequently in current season in abundance. 4. Pest occurs in severe form. A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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A4 : 4

Objective Question

13	2013	Which country is the largest producer of raw silk? 1. Japan 2. India 3. China 4. South Korea A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

14	2014	Transfer of Ownership is the example of which utility..... 1. Time utility 2. Place utility 3. Possession utility 4. Form utility A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

15	2015	What happens to the total number of chromosomes during mitotic cell division? 1. gets doubled 2. gets halved 3. remains the same 4. divides into four A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

16	2016	What is the minimum forest cover to be maintained as per the National Forest Policy, 1988? 1. One-half 2. One-third 3. One-fourth 4. Two-third A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

17	2017	Who among the following is known as the "Father of Agronomy"? 1. Stephen Hales 2. Gregor Johann Mendel 3. Peter Decresenzi 4. D N Walia A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

18	2018	Which of the following plant hormones helps in shoot elongation? 1. Auxin 2. Gibberellic acid 3. Absciscic acid 4. Cytokinin A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

19	2019		4.0	1.00
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		Select from the following the chemical property of soil..... 1. Colour 2. pH 3. Texture 4. Structure A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
20	2020	The process of separating quality grains from chaff is called as..... 1. Winnowing 2. Threshing 3. Harvesting 4. Tilling A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
21	81001	Evans blue dye (T-1824) is used to measure... 1. Plasma volume 2. Total body water 3. Extracellular fluid volume 4. Renal blood flow rate A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
22	81002		4.0	1.00

Which vessel group contains the most blood volume?

1. Systemic arteries
2. Systemic capillaries
3. Systemic veins
4. Pulmonary capillaries

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

23	81003	Which one of the avian digestive tract structures secretes HCl and pepsinogen?	4.0	1.00
1. Crop 2. Proventriculus 3. Gizzard 4. Ceca				
A1 : 1				
A2 : 2				
A3 : 3				
A4 : 4				

Objective Question

24	81004	Which enzyme of the pancreas is released in active form	4.0	1.00
1. Trypsin 2. Chymotrypsin 3. Carboxypeptidase 4. Amylase				
A1 : 1				
A2 : 2				
A3 : 3				
A4 : 4				

Objective Question

25	81005		4.0	1.00
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		Glucose reabsorption occurs in the 1. Proximal tubule 2. Loop of Henle 3. Distal tubule 4. Cortical collecting duct A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
26	81006	Renin is secreted by 1. Cells in the macula densa 2. Cells in the proximal tubules 3. Cells in the distal tubules 4. Juxtaglomerular cells A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
27	81007	P wave of the electrocardiogram denotes 1. Ventricular depolarization 2. Atrial depolarization 3. Atrial repolarization 4. Ventricular repolarization A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
28	81008		4.0	1.00

		Which blood vessel is known as elastic vessel?		
		1. Aorta 2. Arteriole 3. Capillary 4. Vein		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
29	81009	Conduction of depolarization from the surface of a muscle fiber to its inner aspects is accomplished by the: 1. Neuromuscular junction 2. Actin filaments 3. Endomysium 4. Sarcotubular system	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
30	81010	A nerve fiber is made of 1. An axon only 2. An axon and Schwann cells 3. An axon and endoneurium 4. An axon and epineurium	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
31	81011		4.0	1.00

Pain is detected by the

1. Free nerve endings
2. Pacinian corpuscles
3. Muscle spindle
4. Merkel's corpuscles

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

32	81012	Prometea, the first clone of any mammalian species born from its genetic mother belongs to 1. Horse 2. Dog 3. Monkey 4. Cow A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

33	81013	Venous blood generally has pO₂ 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
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Objective Question

34	81014		4.0	1.00
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Photochemical pigment present in Cone cells of eye is

1. Rhodopsin
2. Iodopsin
3. Scotopsin
4. Melanin

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

35	81015	Ovulation takes place with copulation in 1. Tiger and dog 2. Cat and dog 3. Cat and tiger 4. Horse and cattle A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

36	81016	Inhibitor of metal dependent protease is 1. EDTA 2. PMSF 3. Leupeptine 4. N-acetyl cysteine A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

37	81017		4.0	1.00
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Which of the following is a non-patentable subject matter in India?

1. A synthetic DNA sequence for probe development
2. A new method of amplifying DNA sequence
3. A method of diagnosis or treatment of disease
4. A new device for DNA isolation

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

38	81018	Induced fit model of enzyme substrate interaction is given by 1. Daniel Koshland 2. Emil Fisher 3. Nicolson 4. De Duve A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

39	81019	Michaelis constant K_m is the substrate concentration at which enzyme works at its? 1. V_{max} 2. Half V_{max} 3. Three fourth of V_{max} 4. One fourth of V_{max} A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

40	81020		4.0	1.00
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		Identify Nickel containing enzyme? 1. Urease 2. Carbonic anhydrase 3. Lactate dehydrogenase 4. Lysozyme A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
41	81021	Malonate is a competitive inhibitor of which of the following enzymes? 1. Fumerase 2. Malate dehydrogenase 3. α-Ketoglutarate dehydrogenase 4. Succinate dehydrogenase A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
42	81022	Which form of vitamin A is required for vision? 1. Retinol 2. Retinoic acid 3. Retinal 4. Diretinol A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
43	81023		4.0	1.00

		In thin layer chromatography, mobile phase is 1. Solid 2. Liquid 3. Gel 4. Gaseous A1 : 1 A2 : 2 A3 : 3 A4 : 4		
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Objective Question

44	81024	In the questions given below, two statements marked as Assertion (A) and Reason (R). A: The glucose is a non reducing sugar R: The open-chain form of the glucose is in equilibrium with the ring form. Read the statements and choose the correct answer 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 correct, but (R) is wrong. 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

45	81025	In the questions given below, two statements marked as Assertion (A) and Reason (R). A: Ruminant can degrade cellulose. R: They contain organisms in their rumen that encode enzymes which can hydrolyze the (β1-4) linkages. Read the statements and choose the correct answer 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 correct, but (R) is wrong. 4. (A) is not correct, but (R) is correct. A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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A4 : 4

Objective Question

46	81026	In the questions given below, two statements marked as Assertion (A) and Reason (R). A: Trans-fatty acids is structurally similar to cis-fatty acids. R: The kinks in the fatty acid molecules determine whether the material is solid or liquid at room temperature. Read the statements and choose the correct answer - 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 correct, but (R) is wrong. (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

47	81027	In the questions given below, two statements marked as Assertion (A) and Reason (R). A: Under anaerobic conditions, glycolysis is the primary source of energy R: In glycolysis, ATPs can be produced by substrate level phosphorylation Read the statements and choose the correct answer - 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 correct, but (R) is wrong. (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

48	81028		4.0	1.00
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In the questions given below, two statements marked as Assertion (A) and Reason (R).

A : The increase in concentration of substrate can not alleviate inhibition of allosteric enzymes.

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

Read the statements and choose the correct answer

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 correct, but (R) is wrong.
4. (A) is not correct, but (R) is correct.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

49	81029	Amino acids which contain sulfur are A.Serine B. Threonine C. Methionine D. Cysteine 1. (A), (B) and (C) only. 2. (A) and (B) only. 3. (A), (B), (C) and (D). 4. (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

50	81030	Two forms of a circular DNA that differs only in linkage number are called: 1. Isochromosome 2. Catenanes 3. Concatenanes 4. Topoisomers A1 : 1	4.0	1.00
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		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
51	81031	Autophagy in cells cannot be detected by 1. TEM 2. Comet assay 3. Punctate formation assay 4. Western blot A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
52	81032	Vector backbone used in Covishield vaccine for Covid-19 is: 1. Baculoviral vector 2. Adenoviral vector 3. Adeno associated viral vector 4. Vaccinia viral vector A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
53	81033	In the questions given below, two statements marked as Assertion (A) and Reason (R). A : Vitamin E serves as an antioxidant R: Vitamin E can quench free radicals. Read the statements and choose the correct answer 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 correct, but (R) is wrong. 4. (A) is not correct, but (R) is correct. A1 : 1	4.0	1.00

		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

54	81034	In the questions given below, two statements marked as Assertion (A) and 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 - 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 correct, but (R) is wrong. (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

55	81035	According to the current classification, these are included in enzyme classes A. Hydrolases B. Transferases C. Isomerases D. Translocases Choose the correct answer from the options given below: (A), (B) and (C) only. (A) and (B) only. (A), (B), (C) and (D). (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

56	81036		4.0	1.00
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Chitin is a polysaccharide composed of,

1. N-acetylglucosamine
2. N-acetylmuramic acid
3. N-Glycosaminoglycans
4. N-acetylmuramic acid and L-iduronic acid

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

57	81037	Which of the following is an example of quantitative proteomics method?	4.0	1.00
1. iQUAN 2. iCAL 3. iTRAQ 4. iPCR				
A1 : 1				
A2 : 2				
A3 : 3				
A4 : 4				

Objective Question

58	81038	Which of the following permeating cryoprotectant is commonly used for the vitrification of embryonic stem cells?	4.0	1.00
1. Ethylene glycol 2. Dimethylformamide 3. Trehalose 4. Polyethylene glycol				
A1 : 1				
A2 : 2				
A3 : 3				
A4 : 4				

Objective Question

59	81039		4.0	1.00
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		Number of chromosomes present in mouse (<i>Mus musculus</i>) is, 1. 18 2. 24 3. 40 4. 46 A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
60	81040	RNA polymerases bind to, 1. DNA at promoters 2. RNA at promoters 3. RNA primers on leading strands of DNA 4. RNA primers on lagging strands of DNA A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
61	81041	AP endonucleases is an enzyme that cut the DNA strand at, 1. Basic sites 2. Abasic sites 3. Acidic phosphate 4. Phosphorylated Adenine A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
62	81042		4.0	1.00

		Nicotinic acetylcholine receptor is an example of, 1. Ion-gated ion channel 2. Ligand-gated ion channel 3. Voltage-gated ion channel 4. Mechano-sensitive ion channel A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
63	81043	Fluorescence resonance energy transfer (FRET) can be used to, 1. Estimate the copy number of mRNA transcript in a living cell 2. Know the site of integration of a transgene within a living cell 3. Measure cAMP concentration in a living cell 4. Carbon dating of living cells A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
64	81044	Which of the following is NOT a characteristic of Type II restriction enzymes? 1. The recognition sequences are palindromic 2. The recognition sequences are 4–8 base pairs long 3. They hydrolyze hydrogen bonds in A-T and G-C base pairing on each strand 4. They cleave both polynucleotide strands of DNA A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
65	81045		4.0	1.00

Which of the following may be used for visualization of DNA fragments separated by gel electrophoresis?

1. Staining with dichrohydrofluorescein diacetate
2. Staining with SYBR Green
3. Bromophenol blue
4. Staining with fluorescein diacetate

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

66	81046	Which of the following is NOT a potential use of organ culture in research or therapy?	4.0	1.00
1. Production of tissue-engineered organs for transplant 2. Testing of new drugs 3. Study of tissue development and differentiation 4. Production of organ-specific aptamers				
A1 : 1				
A2 : 2				
A3 : 3				
A4 : 4				

Objective Question

67	81047	Which of the following is NOT a type of chromosomal abnormality that can be detected by karyotyping?	4.0	1.00
1. Deletions 2. Translocations 3. Point mutations 4. Inversions				
A1 : 1				
A2 : 2				
A3 : 3				
A4 : 4				

Objective Question

68	81048		4.0	1.00
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The first successful artificial insemination (AI) was reported in dogs by,

1. Lazzaro Spallanzani
2. John B. Gurdon
3. Ralph L. Brinster
4. Marialuis Lavitrano

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

69	81049	Organisms having diploid cells in various organs from two different species may be referred as_____. 1. Transgenic animals 2. Mosaic animals 3. Chimera 4. Cross-breeds A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

70	81050	Which of the following is considered as the best organ donor for xenotransplantation in humans? 1. Miniature pigs 2. Indian desi cows 3. Sheep 4. Goats A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

71	1001651		4.0	1.00
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Fluid mosaic model of membrane structure is given by

1. Singer and Nicolson
2. Koshland and Nicolson
3. Francis Crick
4. Emil Fisher

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

72	1001652	How many stereoisomers glyceraldehyde will have	4.0	1.00
		1. 2 2. 3 3. 4 4. 5		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

73	1001653	In aqueous solution, the glucose mostly exists as	4.0	1.00
		1. α-D-glucopyranose 2. β-D- glucopyranose 3. Linear 4. Glucofuranose		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

74	1001654		4.0	1.00
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Which of the following is a small molecule that binds to the repressor protein in an inducible operon to allow transcription to occur

1. Glucose
2. Tryptophane
3. Lactose
4. Histone

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

75	1001655	Lactose is the key sugar present in the milk and is composed of glucose 1. Glucose 2. Galactose 3. Mannose 4. Fructose A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

76	1001656	Which of the following is not a reducing sugar? 1. Glucose 2. Maltose 3. Sucrose 4. Lactose A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

77	1001657		4.0	1.00
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The rigid component of bacterial cell walls is composed of alternating units N-acetylglucosamine and N-acetylmuramic acid 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	Edman degradation for peptide synthesis can be carried out in 1. Mass spectrometer 2. Gas chromatograph 3. Sequenator 4. NMR spectrometer A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

79	1001659	Out of following which phospholipids play important role in apoptosis (programmed cell death) 1. Phosphatidylserine 2. Phosphatidylethanolamine 3. Phosphatidylcholines 4. Phosphatidylinositol A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

80	1001660		4.0	1.00
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Galactosylceramide is a major glycosphingolipid present in

1. Brain and other nervous tissue.
2. Muscles
3. Intestinal wall
4. Liver

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

81	1001661	The Major glucose transporter present in skeletal muscle is 1. GLUT 2 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	Which anticoagulant is being preferred for estimation of blood glucose levels 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		4.0	1.00
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		In glycolysis, glucose converts into 1. Acetyl CoA 2. Oxaloacetate 3. Pyruvate 4. Malate A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
84	1001664	Glyoxalate shunt is an epicycle of 1. Glycolysis 2. Pentose phosphate pathway 3. TCA cycle 4. β-oxidation A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
85	1001665	Bilirubin majorly conjugated as 1. Glucuronide 2. Sulphate 3. Pyruvate 4. Acetate A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
86	1001666		4.0	1.00

		Indirect van den Bergh or diazo reaction occurs in		
		1. Obstructive jaundice 2. Haemolytic jaundice 3. Pancreatic diseases 4. Muscle damage		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

87	1001667	Sprinters rely on metabolism of carbohydrates via 1. Glycolysis 2. Krebs cycle 3. Pentose phosphate pathways 4. Glyoxalate shunt A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

88	1001668	Glycoproteins can be distinguished by staining with 1. Coomassie Brilliant Blue R-250 2. Amido Black 3. Periodic acid-Schiff 4. Silver staining A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

89	1001669		4.0	1.00
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A protein having different variants of amino acid sequences is called,

1. Transcript variants
2. Polymorphic proteins
3. Splice variants
4. Proteins have fixed amino acid sequence

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

90	1001670		4.0	1.00
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In phase I 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

Objective Question

91	1001671		4.0	1.00
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In the questions given below, two statements marked as Assertion (A) and Reason (R).

A: A glycogen molecule has as many non-reducing ends. The branches help degradative enzymes to degrade glycogen faster.

R: Degradative enzymes act only at nonreducing ends so can work simultaneously on the many branches, speeding the conversion of the polymer to monosaccharides.

Read the statements and choose the correct answer

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

92	1001672	In the questions given below, two statements marked as Assertion (A) and Reason (R). A: Inulin can be used for determination of glomerular filtration rate. R: Inulin can be easily digested by enzymes of digestive tract. Read the statements and choose the correct answer 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

93	1001673	In the questions given below, two statements marked as Assertion (A) and Reason (R). A: Vitamin D is important for calcium metabolism. R: Blood calcium levels is regulated by Vitamin D. Read the statements and choose the correct answer 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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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: Protein sequence can be deduced from nucleotide sequence.

Read the statements and choose the correct answer

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

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 is loosely bind to enzyme Read the statements and choose the correct answer 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

96	1001676		4.0	1.00
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In the questions given below, two statements marked as Assertion (A) and Reason (R).

A: Suicide substrates are inhibitory substrate analogs designed so that, via normal catalytic action of the enzyme, a very reactive group is generated.

R: This reactive group then forms non-covalent bonds with a nearby functional group outside the active site of enzyme, thereby causing irreversible inhibition.

Read the statements and choose the correct answer

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

97	1001677	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). A: Glucokinase is absent from the liver of ruminants. R: Ruminants have little glucose entering the portal circulation from the intestines. Read the statements and choose the correct answer 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

98	1001678		4.0	1.00
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In the questions given below, two statements marked as Assertion (A) and Reason (R).

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

R: Pentose phosphate pathway generates five carbon sugars.

Read the statements and choose the correct answer

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

99	1001679	In the questions given below, two statements marked as Assertion (A) and Reason (R). Assertion (A): Vitamin K is needed for biosynthesis of blood clotting factors. Reason (R): Vitamin K serves as a cofactor for carboxylase. Read the statements and choose the correct answer 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

100	1001680	In the questions given below, two statements marked as Assertion (A) and Reason (R). Assertion (A): Protein A can be used to isolate immunoglobulins. Reason (R): Protein A has very poor affinity to immunoglobulins. Read the statements and choose the correct answer 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.	4.0	1.00
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		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
101	1001681	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	4.0	1.00
Objective Question				
102	1001682	Select structural polysaccharide A. Starch B. Cellulose C. Chitin D. Peptidoglycan Choose the correct answer from the options given below: 1. (A) and (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	4.0	1.00

		A4 : 4		
Objective Question				
103	1001683	Identify glycosaminoglycans (mucopolysaccharide) A. Hyaluronic acid B. Chondroitin sulfate C. Heparin D. Chitin Choose the correct answer from the options given below: 1. (A) and (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				
104	1001684	Regarding peptides identify correct sentence(s) A. Peptides are ployelectrolytes B. Peptide bond has partial double-bond character C. Peptide can contain unusual amino acids D. pH and pK determine net charge on peptides Choose the correct answer from the options given below: 1. (A) and (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				
105	1001685		4.0	1.00

Select hormone(s) which affect the levels of blood glucose

- A. Insulin
- B. Glucagon
- C. Cortisol
- D. FSH

Choose the correct answer from the options given below:

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

106 1001686

The glycerol 3-phosphate shuttle, which transport NADH and operates in the mitochondria of

- A. Liver
- B. Kidney
- C. Brain
- D. Skeletal muscle

Choose the correct answer from the options given below:

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

107 1001687

4.0 1.00

Irreversible reactions in glycolysis are

- A. The conversion of glucose to glucose 6-phosphate by hexokinase
- 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) and (B) and (C) only.
- 2. (A) and (B) only.
- 3. (A), (B), (C) and (D).
- 4. (C) and (D) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

108	1001688	These enzymes are used in recombinant DNA technology A. Acid phosphatase B. Alkaline phosphatase C. Ligase D. Taq DNA Polymerase Choose the correct answer from the options given below: 1. (A) and (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
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Objective Question

109	1001689		4.0	1.00
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Vitamin B12-dependent enzymes are

A. Methyl malonyl CoA mutase

B. Leucine aminomutase

C. Methionine synthase

D. Catalase

Choose the correct answer from the options given below:

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

110 1001690

4.0 1.00

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

Assertion (A): Carbohydrates are preferred source of fuels.

Reason (R): Metabolism of carbohydrates produces more ATP than that of fat.

Read the statements and choose the correct answer

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

111 1001691

4.0 1.00

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

112	1001692	Phase II reaction for detoxification of xenobiotics includes A. Hydroxylation B. Deamination C. Glucuronidation D. Sulfation Choose the correct answer from the options given below: 1. (A) and (B) and (C) only. 2. (A) and (B) only. 3. (A), (B) and (D) only. 4. (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

113	1001693		4.0	1.00
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In general, the reason of the detoxification of xenobiotics is to

- A. Make them non-toxic
- B. Increase their water solubility
- C. Decrease their water solubility
- D. Facilitate their excretion from the body

Choose the correct answer from the options given below:

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

114 1001694

4.0 1.00

Match List-I with List-II

List-I	List-II
Enzyme	Coenzyme
(A). Pyruvate dehydrogenase	(I). TPP
(B). Transketolase	(II). NADPH
(C). Lactate dehydrogenase	(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

Match List-I with List-II

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

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

116 1001696

4.0 1.00

Match List-I with List-II

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

Choose the correct answer from the options given below:

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

117 1001697

4.0

1.00

Match List-I with List-II

List-I	List-II
Disease	Deficiency of
(A). Beriberi	(I). Vitamin D
(B). Scurvy	(II). Vitamin C
(C). Rickets	(III). Thiamin diphosphate
(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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

119 1001699

4.0 1.00

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:

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

120 1001700

4.0 1.00

Identify reactive oxygen species

A. Superoxide

B. Hydrogen peroxide

C. Hydroxyl Radical

D. Peroxynitrite

Choose the correct answer from the options given below:

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

A1 : 1

		A2 : 2		
		A3 : 3		
		A4 : 4		