

PREVIEW QUESTION BANK

Module Name : Veterinary Physiology - 31-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
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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
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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
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A3 : 3

A4 : 4

Objective Question

7 207

4.0 1.00

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 *most appropriate* answer from the options given below.

1. Both Statement (I) and Statement (II) are correct.
2. Both Statement (I) and Statement (II) are incorrect.
3. Statement (I) is correct but Statement (II) is incorrect.
4. Statement (I) is incorrect but Statement (II) is correct.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

8 208

4.0 1.00

The local name of cyclone in Philippines is

1. Hurricane
2. Cyclone
3. Baquio
4. Typhoon

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

9 209

4.0 1.00

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. *Alyosia* 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
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
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

		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
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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
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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
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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

301810

4.01.00

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

List-I	List-II
(A) Protanope	(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:

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

31	1811	Active form of vitamin D is released from 1. Liver 2. Skin 3. Intestine 4. Kidney A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

32	1812		4.0	1.00
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		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
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
Objective Question				
38	1818		4.0	1.00

		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. Riboflavin 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) Methionine
- (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

Objective Question

50 1830

4.0 1.00

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
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Objective Question

52	1832		4.0	1.00
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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.	4.0	1.00
		A1 : 1 A2 : 2 A3 : 3 A4 : 4		

Objective Question

56	1836		4.0	1.00

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.	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

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.	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

62	1842		4.0	1.00
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		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.	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

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.	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

65	1845		4.0	1.00
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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		
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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
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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
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Objective Question

71	1001601		4.0	1.00
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		Mammary secretion does NOT provides neonates _____ 1. Nutrition 2. Signaling molecules that promotes growth 3. Lipopolysacchrides 4. Protection by immunomodulation A1 : 1 A2 : 2 A3 : 3 A4 : 4		
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Objective Question

72	1001602	At the neuromuscular synapse, Ca^{++} ions are necessary to _____ 1. Bind the transmitter with the postsynaptic receptor 2. Facilitate diffusion of the transmitter to the postsynaptic membrane 3. Split the transmitter in the cleft, thus deactivating the transmitter 4. Fuse the presynaptic vesicle with the presynaptic membrane, thus releasing the transmitter A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

73	1001603	Currents caused by opening of which of the following channels contribute to the repolarization phase of the action potential of ventricular muscle fibers? 1. Na^+ channels 2. Cl^- channels 3. Ca^{2+} channels 4. K^+ channels A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

74	1001604	The normal pathway followed by a cardiac action potential is to begin in the SA node and then spread_____ 1. Across the atria in the bundle of His. 2. Through the connective tissue layers that separate the atria and ventricle. 3. Across the atria and to the AV node. 4. From the left atrium to the right atrium. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

75	1001605	Bovine urine has osmolality (mOsm/kg H₂O) of about 1. 302 2. 272 3. 1031 4. 1904 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

76	1001606	The T-wave in a normal ECG represents 1. Atrial depolarization 2. Atrial repolarization 3. Pacemaker potential 4. Ventricular repolarization A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

77	1001607		4.0	1.00
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Blood clotting factor XIII is also known as _____.

1. Fibrin stabilizing factor
2. Hageman factor
3. Plasma thromboplastin antecedent
4. Thromboplastin

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

78	1001608	Which of the following statements most accurately describes avian air sacs? 1. The air sacs are highly vascular membranes that significantly contribute to gas exchange 2. The air sacs receive inspired air before it crosses the paleopulmonic and neopulmonic lung tissues 3. The volume of the air sacs is unaffected by body position 4. The air sacs do not have a significant gas-exchange function and only serve to provide a tidal flow of gas across the lung tissue A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

79	1001609	Which of the following receptor have afferent nerve fibers in the glossopharyngeal nerve? 1. Carotid bodies 2. Slowly adapting pulmonary stretch receptors 3. Aortic bodies 4. Intercostal stretch receptors A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

80	1001610		4.0	1.00
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Blood having 15g/dl Hb is saturated with 97.5% oxygen at 100mm Hg PO₂. How much volume of oxygen is transported by 100ml of blood?

1. 19.6 ml
2. 19.9 ml
3. 1.96 ml
4. 0.196 ml

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

81	1001611	Stimulation of the central (proximal) end of a cut vagus nerve would be expected to 1. Increase heart rate. 2. Stimulate inspiration. 3. Inhibit coughing. 4. Cause apnea. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

82	1001612	Hyperosmolarity of renal medulla is facilitated by all except _____ 1. Increased medullary Na⁺ 2. Recirculation of urea 3. Sluggish medullary blood flow 4. Increased medullary Ca²⁺ A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

83	1001613	On which of the following does aldosterone exert its greatest effect? 1. Proximal tubule 2. Thin portion of the loop of Henle 3. Thick portion of the loop of Henle 4. Cortical collecting duct A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

84	1001614	Tubular fluid is transported from Bowman's capsule to the renal pelvis by _____ 1. Action of cilia 2. Peristalsis 3. Hydrostatic pressure gradient 4. Bucket brigade A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

85	1001615	The holotrichus protozoa mainly feed on 1. Soluble starch 2. Cellulose 3. Hemicellulose 4. Protein A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

86	1001616		4.0	1.00
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		Pace maker cells of gastro-intestinal motility is _____ 1. Intestinal cells of Cajal 2. Interstitial cells of Cajal 3. Submucosal plexus 4. Mucosal epithelial cells A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
87	1001617	In which of the following respect is fermentative digestion different from glandular digestion? 1. Enzymes are not involved in fermentation 2. Chemical bonds are not split by hydrolysis in fermentative digestion 3. Only carbohydrates are digested by fermentative digestion 4. Substrates are more extensively altered in fermentative digestion than in glandular digestion A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
88	1001618	Insulin promotes expression of 1. GLUT 1 2. GLUT 3 3. GLUT 4 4. GLUT 5 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
89	1001619		4.0	1.00

Match List-I with List-II

List-I	List-II
antioxidant	substrate
(A). Vitamin C	(I). Superoxide dismutase
(B). Vitamin E	(II). Peroxidase
(C). Vitamin A	(III). Coenzyme Q10
(D). Ubiquinones	(IV). Catalase

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

90 1001620

All of the following are metabolites that can be oxidized for fuel in the animal body. Which one is not important in the transport of energy between organ and organ systems?

- Triglycerides
- Ketone bodies
- Oxaloacetic acid
- Nonesterified fatty acids

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

91 1001621

4.0 1.00

Regarding ionic basis of action potential in cardiac muscle, which one of the following is incorrect?

1. Phase 0: Na influx
2. Phase 1: K influx
3. Phase 2: Ca influx
4. Phase 3: K efflux

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

92	1001622	The Ca^{2+} released from the sarcoplasmic reticulum begins the contraction process by _____ 1. "Cocking" the myosin filament cross-bridge heads 2. Rephosphorylating ADP 3. Exposing actin filament cross-bridge binding sites 4. Facilitating ACh release from the neuromuscular junction A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

93	1001623	Which of the following is true about olfactory transmission? 1. An olfactory sensory neuron expresses a wide range of odorant receptors. 2. Lateral inhibition within the olfactory glomeruli reduces the ability to distinguish between different types of odorant receptors. 3. Conscious discrimination of odors is dependent on the pathway to the orbitofrontal cortex. 4. Olfaction is closely related to gustation because odorant and gustatory receptors use the same central pathways. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

94	1001624	The receptor that detects angular acceleration and deceleration of the head is the _____. 1. Organ of Corti 2. Macula in the saccule 3. Crista ampullaris 4. Macula in the utricle A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

95	1001625	Which one of the following is also known as error correcting device of brain goal-directed movements? 1. Thalamus 2. Hypothalamus 3. Epithalamus 4. Cerebellum A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

96	1001626	The tapetum lucidum is present in the: 1. Iris 2. Choroid 3. Retina 4. Ciliary body A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

97	1001627		4.0	1.00
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A lesion of Wernicke's area (the posterior end of the superior temporal gyrus) in the categorical hemisphere causes patients to

1. Lose short-term memory.
2. Speak in a slow, halting voice.
3. Talk rapidly but make little sense.
4. Lose the ability to recognize faces.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

98 1001628

4.0 1.00

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

List-I	List-II
(A). Umami	(I). Taste
(B). Anosmatic	(II). Vision
(C). Amnesia	(III). Smell
(D). Anopsia	(IV). Memory

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

99 1001629

4.0 1.00

Insulin-like growth factor-1 would be expected to:

1. Increase glycogen synthesis in muscle
2. Decrease liver gluconeogenesis
3. Increase lipolysis in adipose tissue
4. Decrease protein accretion in muscle

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

100 1001630

Term "pheromone" was coined by

1. Heubner & Ogle
2. Karlson & Luscher
3. Wurtman & Axelrod
4. Young & Rosbash

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

101 1001631

Which if the following statement is true about pheromones ?

- (A) Receptors for aerosolic pheromones are present in Main Olfactory Epithelium (MOE)
- (B) Receptors for liquid pheromones are present in Vomeronasal Organ (VNO)
- (C) Receptors for aerosolic pheromones are present in Vomeronasal Organ (VNO)
- (D) Receptors for liquid pheromones are present in Main Olfactory Epithelium (MOE)

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

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

A1 : 1

A2 : 2

4.0 1.00

A3 : 3

A4 : 4

Objective Question

102	1001632	Which of the following is incorrectly paired? 1. Gluconeogenesis : cortisol 2. Free fatty acid mobilization : dehydroepiandrosterone 3. Muscle glycogenolysis : epinephrine 4. Kaliuresis : aldosterone A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

103	1001633	The hormones responsible for nutrient partitioning 1. GH/PRL 2. GH/Thyroxin 3. PRL/Thyroxin 4. Progesterone/PRL A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

104	1001634	In a three wave estrous cycle, the maximum diameter of the largest follicle is smaller in 1. First wave 2. Second wave 3. Third wave 4. Does not depend on the wave A1 : 1 A2 : 2	4.0	1.00
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		A3 : 3		
		A4 : 4		

Objective Question

105	1001635	Full development and function of the seminiferous tubules require _____. 1. Somatostatin. 2. LH. 3. FSH. 4. Androgens and FSH A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

106	1001636	The hormone which is primarily responsible for the ductular development of udder is _____. 1. Prolactin 2. Estrogen 3. Progesterone 4. Growth hormone A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

107	1001637		4.0	1.00
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Regarding recombinant bovine somatotropin (rBST), which statement is/are true?

- (A) Stimulates mammary secretory epithelium
- (B) Decrease metabolic rate
- (C) Improve nutrient utilization
- (D) Decrease cell ageing

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

108 1001638

Superfecundation refers to

- 1. Fertilization of two or more ova from the same cycle by sperm from separate acts of sexual intercourse
- 2. Fertilization of two or more ova from the different cycles by sperm from single act of sexual intercourse
- 3. Fertilization of two or more ova from the same cycle by sperm from single acts of sexual intercourse
- 4. Fertilization of two or more ova from the different cycles by sperm from single acts of sexual intercourse

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

109 1001639

Aldosterone stimulates sodium reabsorption and potassium secretion in _____.

- 1. Cortical collecting duct
- 2. Descending limb of the loop
- 3. Ascending limb of the loop
- 4. Proximal convoluted tubule

A1 : 1

A2 : 2

4.0

1.00

A3 : 3

A4 : 4

Objective Question

110	1001640	Intertwining of the ovarian artery with the uterine vein serves to _____ 1. Cool the ovary 2. Suspend the ovary 3. Transport PGF2α from the uterus to the ovary 4. Transport spermatozoa from the uterus to the ovary A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

111	1001641	Which of the following is NOT a natural ligand for receptors in the pancreas ? 1. CCK 2. Gastrin 3. Acetylcholine 4. Spectrin A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

112	1001642	Rapid growth rate that occurs after a period of starvation is called as _____ 1. Allometric growth 2. Compensatory growth 3. Isometric growth 4. Regulatory growth A1 : 1 A2 : 2	4.0	1.00
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A3 : 3

A4 : 4

Objective Question

113	1001643	A typical length of dry period, in cows, without affecting milk production is _____ 1. <30 days 2. 40-60 days 3. >60 days 4. Precisely at 75 days A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

114	1001644	Lower lethal body temperature for most animals is within the range of _____ 1. 5-10 °C 2. 10 -12 °C 3. 15-20 °C 4. 30-35 °C A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

115	1001645		4.0	1.00
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Which statement is correct in regards of heat tolerance at 65% relative humidity?

- (A) Cattle & Sheep can tolerate upto 43 °C
 (B) Pig can tolerate upto 39 °C
 (C) Cat can tolerate upto 40 °C
 (D) Dog can tolerate upto 41 °C

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

116 1001646

4.0 1.00

Which statement(s) is true about sweat glands?

- (A) Size and number per unit skin area is greater in Brahman cattle than European cattle
 (B) In Brahman cattle, glands are much closer to skin surface.
 (C) Sweat glands are larger in winter than in summer
 (D) Exercise may reduce their volume.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

117 1001647

4.0 1.00

Which of the following factor may not affect the set point of body temperature?

1. Fever
2. Hibernation
3. Sleep & pain
4. Feeding

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

118 1001648

What is not true about acquired immunity?

1. It is the most important aspect of adaptation to diseases.
2. It is not specific to a particular disease.
3. Efficiency of phagocytes is greatly enhanced.
4. There is an increase in circulating antibodies.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

119 1001649

Amongst domestic mammals, which of the following animal has widest seasonal variations in gestation length?

1. Horse
2. Cattle
3. Sheep
4. Goat

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

120 1001650

4.0

1.00

Which ecological rule states about relatively shorter extremities in the cooler climatic zones?

1. Allen's rule
2. Wilson's rule
3. Bergmann's rule
4. Golger's rule

A1 : 1

A2 : 2

A3 : 3

A4 : 4