

PREVIEW QUESTION BANK

Module Name : Veterinary Pharmacology and Toxicology - 27-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 - Baquoio - 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	1701	Which pathogen is commonly associated with septicemia in piglets and may localize in joints, endocardium, and meninges? 1. Escherichia coli 2. Streptococcus suis type 1 3. Actinobacillus suis 4. Salmonella spp A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
22	1702	Which of the following is a common clinical finding associated with neonatal septicemia in farm animals? 1. Increased appetite 2. Elevated body temperature 3. Strong suck reflex 4. Bright and alert behavior A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
23	1703	Which condition in horses can lead to sudden death from peracute endogenous toxemia? 1. Rupture of the stomach. 2. Gastric impaction. 3. Mycosis of the guttural pouch. 4. Abomasal rupture. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

24	1704	What is a limitation of ultrasonography? 1. It cannot penetrate soft tissue. 2. It is harmful to nearby personnel. 3. It is less suited than radiography for examining soft tissue. 4. It is unable to penetrate gas-filled or bony structures A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

25	1705	Which of the following is a major clinical finding associated with enteritis? 1. Increased appetite 2. Diarrhea 3. Excessive weight gain 4. Elevated body temperature A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

26	1706	What is the primary cause of frothy bloat in ruminants? 1. Production of excessive propionic acid due to fermentation 2. Formation of a stable foam in the rumen 3. Overfeeding of Hay 4. Chronic ruminal acidosis A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

27	1707	What is a common cause of hemolytic jaundice in animals? 1. Biliary calculi 2. Hepatic fibrosis 3. Bacterial toxins 4. Pancreatitis A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

28	1708	What is the primary origin of hemorrhage in hemoptysis? 1. Nasal cavity 2. Guttural pouch 3. Larynx 4. Lungs A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

29	1709	Pulmonary emphysema is characterized by 1. Inflammation of lung tissue 2. Overdistension of alveoli with rupture of alveolar walls 3. Fibrosis in the lung parenchyma 4. Constriction of bronchioles A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

30	1710		4.0	1.00
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What is the most common cause of acute kidney failure due to nephrosis?

1. Ischemic insult
2. Tubular injury
3. Nephrotoxins
4. Uremia

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

31 1711

Indicate the FDA-approved drug used for the reversal of xylazine-induced sedation in the horse.

1. Yohimbine
2. Tolazoline
3. Atipamezole
4. Medetomidine

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

32 1712

In peptic ulcers, antacids do have a primary role in:

1. Prompt relief of pain
2. Prevention of ulcer relapse
3. Control of bleeding
4. Ulcer healing

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

33 1713

4.0

1.00

Indicate the toxicant / agent, the toxicity of which increases due to ruminal metabolism?

1. Oxalates
2. Cardioactive glycosides
3. Cyanogenic glycosides
4. Gossypol

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

34 1714

4.0 1.00

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

Assertion (A): In ruminants, photosensitization is a cascading reaction in which a photodynamic molecule gets activated by the absorption of an appropriate wavelength leading to clinical photosensitization

Reason (R): It is usually due to the pouring of phylloerythrin in the dermal blood circulation, secondary to diffuse liver disease.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

35 1715

4.0 1.00

The primary endogenous substrate for nitric oxide synthase is

1. Acetylcholine
2. Citruline
3. Angiotensinogen
4. Arginine

A1 : 1

A2 : 2

		A3 : 3		
		A4 : 4		

Objective Question

36	1716	Choline is transported from the extracellular fluid into the neuron terminal by a sodium-dependent membrane choline transporter which can be blocked by 1. Vesamicol 2. Hemicholinium 3. Triethylcholine 4. Reserpine A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

37	1717	Which one of the following options is a Catechol-O-Methyl transferase inhibitor: 1. Selegiline 2. Rasagiline 3. Entacapone 4. Clorgyline A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

38	1718	Which of the following CNS neurotransmitter is excitatory on the individual neurons and causes a decrease in potassium conductance 1. Glycine 2. GABA 3. Dopamine 4. Acetylcholine A1 : 1 A2 : 2	4.0	1.00
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A3 : 3

A4 : 4

Objective Question

39	1719	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A): Antrycide pro salt is used for the therapy and prophylaxis of trypanosomiasis. Reason (R): Initial short and rapid protection from trypanosomiasis is offered by Quinapyramine chloride, followed by prophylactic effect by Quinapyramine sulfate latter In light of the above statements, choose the correct answer from the options given below. - Both (A) and (R) are true and (R) is the correct explanation of (A). - Both (A) and (R) are true but (R) is NOT the correct explanation of (A). (A) is true but (R) is false. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

40	1720	Which one of the anticoccidial agents acts on 2nd day of the lifecycle of Eimeria but gives an unpleasant taste to the flesh of the broilers if not withdrawn 5 days before slaughter - Arpinocid - Monensin - Amprolium - Robenidine A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

41	1721	Fire Hose effect at the time of ejaculation is shown by ? - Buffalo bull - Tom - Ram - Dog	4.0	1.00
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A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

42 1722

4.0 1.00

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

SPECIES	TESTICULAR DESCENT
(A).CAT	(I). MID GESTATION (80 DAYS)
(B).DOG	(II). FEW DAYS AFTER BIRTH
(C). SHEEP	(III). 2-5 DAYS AFTER BIRTH
(D). HORSE	(IV).B/W LAST FEW DAYS OF GESTATION & FEW DAYS AFTER BIRTH

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

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

43 1723

4.0 1.00

Genetic condition of defective foetus responsible for hydroamnios condition is

- Bull dog calf in dexter cattle.
- Brachygnathic calves in Angus cattle
- Muscle contracture monster in sahiwal

- All are correct
- Both A & C are correct
- Both A & B are correct
- Only C is correct

		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
44	1724	Which of the following has highest number of sperm per ejaculate? 1. Bull 2. Stallion 3. Ram 4. Boar A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
45	1725	Maceration occur at which stage of gestation ? 1. First trimester 2. second trimester 3. last trimester 4. At any stage A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
46	1726		4.0	1.00

Which of the following is correctly matched?

- A. Simple uterus : primates
- B. Bicornuate : Sow, Mare, Bitch
- C. Bipartite : Ewe , Doe
- D .Duplex uterus: Rabbit , Rat.

Choose the corect anwer from the options given below

- 1. Only A & C
- 2. Only B & D
- 3. Only A & D
- 4. Only B & C

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

47 1727

Pre ovulatory lutenisation occurs in ?

- 1. Cow
- 2. Ewe
- 3. Mare
- 4. Bitch

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

48 1728

The time period of events of courtship and copulation in horses is ?

- 1. About 40 sec
- 2. About 5 min
- 3. About 2 sec
- 4. About 10 min

A1 : 1

A2 : 2

4.0 1.00

A3 : 3

A4 : 4

Objective Question

49	1729	Which of the following statement is true in case of freemartin condition ? 1. Male is sterile 2. Female is sterile 3. Both are sterile 4. Both are fertile A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

50	1730	Which of the following is not the primary abnormality of sperm ? 1. Double head 2. Microcephalic head 3. Double middle piece and tail 4. Detached normal head A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

51	1731	Which one of the following is the longest cranial nerve 1. Trigeminal nerve 2. Facial nerve 3. Vagus nerve 4. Hypoglossal nerve A1 : 1 A2 : 2	4.0	1.00
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		A3 : 3		
		A4 : 4		

Objective Question

52	1732	Number of mammae (Mammary glands) in cats is - Two - Four - Eight - Ten A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

53	1733	Dorsal longitudinal ligament is strong and wide in- - Thoracic area - Cervical area - Lumbar area - Sacral area A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

54	1734	Elbow joint is an example of - Ball and socket joint - Hinge joint - Pivot joint - Condylar joint A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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A4 : 4

Objective Question

55 1735

4.0 1.00

Match List-I with List-II

List-I	List-II
(A). Polyglycolic acid	(I). Natural Absorbable
(B).Stainless steel	(II). Natural Non absorbable
(C). Umbilical tape	(III). Synthetic Absorbable
(D). Fascia lata	(IV). Synthetic Non absorbable

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

56 1736

4.0 1.00

The part of the stomach that is most prone to necrosis during GDV in dogs is

1. Pyloric canal
2. Pyloric antrum
3. Greater curvature
4. Lesser curvature

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

57 1737

4.0 1.00

		Number of sternal vertebrae in horse - Five - Six - Seven - Eight A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
58	1738	Number of patellar ligaments in dog is - One - Two - Three - Four A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
59	1739	Most common site for lodgement of urethral calculi in goats is - Distal to sigmoid flexure - Proximal to sigmoid flexure - Urethral process - Pelvic urethra A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
60	1740		4.0	1.00

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

Assertion (A) : Hypothermia is usually fatal in newborns

Reason (R) : In new borns hypothalamus does not regulate the temperature efficiently

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

61	1741	The scythe shaped spleen is present in..... 1. Bird 2. Horse 3. Dog 4. Sheep A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

62	1742	The paneth cell are seen in 1. large intestine 2. Small intestine 3. Stomach 4. Thymus A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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		A4 : 4		
Objective Question				
63	1743	Sweeney is caused by damage to which of the following nerve : 1. Axillary 2. Sub-scapular 3. Musculo cutaneous 4. Supra-scapular A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
64	1744	Which of the structure is not part of cerebellum 1. Brachium pontis 2. Brachium conjunctivum 3. Corpus restiformis 4. Corpus trapezoideum A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
65	1745	The tendon of insertion of rectus abdominis muscle is known as: 1. Poupart's ligament 2. Achille's tendon 3. Prepubic tendon 4. Linea alba A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

66	1746	Round ligament of liver is the fetal remnant of: 1. Umbilical vein 2. Umbilical artery 3. Ductus arteriosus 4. Omentum A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

67	1747	The macrophages of nervous tissue are known as: 1. Astrocyte 2. Ependymal cells 3. Microglia 4. Oligodendroglia A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

68	1748	Identify the correct sequence in cleavage: A. Morula formation B. Compaction C. Blastulation D. Zona hatching E. Blastocyst elongation Choose the most appropriate answer from the options given below 1. A, B, C, D, E 2. A, B, E, C, D. 3. B, A, E, C, D. 4. D, B, E, C, A..	4.0	1.00
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		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
69	1749	The peritoneum is lined by 1. Simple sqamous epithelium 2. Simple Cuboidal epithelium 3. Stratified squamous epithelium 4. Simple Columnar epithelium A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
70	1750	Hassal's corpuscles are seen in 1. Pituitary gland 2. Liver 3. Thymus 4. Pineal gland A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
71	1001401		4.0	1.00

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

Assertion (A): There is no such thing as safe anesthetic or safe anaesthetic procedure, just a safe Anaesthetist

Reason (R): Anesthesia procedures are quite safe but should be accomplished by a trained Anaesthetist only.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

72 1001402

4.0 1.00

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

List-I	List-II
Agent/ Drug	Activities
(A). Atropine	(I). Local anesthetic
(B). Caffeine	(II). Antigout
(C). Lignocaine	(III). CNS stimulant
(D). Colchicine	(IV). Anticholinergic

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

73	1001403	Which of the following is concerned with the study of drug absorption, distribution, metabolism, and excretion? 1. Pharmacodynamics 2. Pharmacokinetics 3. Pharmacotherapeutics 4. Pharmacoepidemiology A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

74	1001404	A solution of the weak base dextromethorphan (pKa: 9.2) in the stomach (pH 1) will have 1. Approximately 1 of every 160,000,000 molecules in the unionized form. 2. Approximately 1 of every 16,000,000 molecules in the unionized form. 3. Approximately 1 of every 1,600,000 molecules in the unionized form. 4. Approximately 1 of every 16,000 molecules in the unionized form. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

75	1001405	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A): Antacid should not be administered simultaneously with tetracycline orally in dogs. Reason (R): The drug may lead to the chelation of tetracyclines with divalent cations available in antacids, and thus affect the absorption adversely. In light of the above statements, choose the <i>correct</i> answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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A4 : 4

Objective Question

76	1001406	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R) Assertion (A): Fluoroquinolones are not recommended for young and growing animals. Reason (R): The mechanism for damage to the cartilage is via the chelation of magnesium by the drug leading to vesiculation of the articular surface. Chelation of the magnesium results in a local magnesium deficiency, leading to loss of proteoglycan in the articular cartilage. In light of the above statements, choose the correct answer from the options given below. - Both (A) and (R) are true and (R) is the correct explanation of (A). - Both (A) and (R) are true but (R) is NOT the correct explanation of (A). (A) is true but (R) is false. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

77	1001407	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A): Combinations with other antibiotics may antagonize the antimicrobial effects of fluoroquinolones. Reason (R): Other antibiotics do not produce a synergistic effect when administered with fluoroquinolones. In light of the above statements, choose the <i>correct</i> answer from the options given below. - Both (A) and (R) are true and (R) is the correct explanation of (A). - Both (A) and (R) are true but (R) is NOT the correct explanation of (A). (A) is true but (R) is false. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

78	1001408		4.0	1.00
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Given below are two statements:

Statement (I): Enrofloxacin is not approved for lactating cattle.

Statement (II): Enrofloxacin is highly excreted in milk.

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

79	1001409	Which of the following combination is not true 1. Photosensitization - Doxycycline 2. Crystalluria in Dog - Sulfathiazole 3. Pseudomembranus colitis - Polymyxim 4. Gynaecomastia in male - Varicomazole A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

80	1001410	Given below are two statements: Statement (I): Metabolism of enrofloxacin to ciprofloxacin occurs via de-ethylation of the ethyl group on the piperazine ring. Statement (II): Enrofloxacin is more active than Ciprofloxacin against gram-negative bacilli In light of the above statements, choose the <i>most appropriate</i> 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	4.0	1.00
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A2 : 2

A3 : 3

A4 : 4

Objective Question

81	1001411	Which one of the following is the surface acting sulphonamide 1. Sulphamethoxazole 2. Sulphadiazime 3. Sulphadimidine 4. Sulphacetamide A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

82	1001412	Given below are two statements: Statement (I): In the basic quinolone structure, the carboxyl group at position 3 and the ketone at position 4 are necessary for the antibacterial activity. Statement (II): The fluorine at position 6 differentiates the quinolones from the fluoroquinolones and accounts for the improved gram-negative and gram-positive activity over the nonfluorinated quinolones, increased potency, and increased entry into bacteria. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. 1. Both Statement (I) and Statement (II) are correct. 2. Both Statement (I) and Statement (II) are incorrect. 3. Statement (I) is correct but Statement (II) is incorrect. 4. Statement (I) is incorrect but Statement (II) is correct. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

83	1001413		4.0	1.00
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Arrange the following options in a correct sequence

- (A). Proinsulin is a large polypeptide consisting of an A and B chain and a C peptide.
- (B). Insulin is complexed with zinc and stored.
- (C). Four basic amino acids and the connecting peptide are removed by proteolytic cleavage in golgi complex, thus proinsulin is converted to insulin.
- (D). Insulin is packaged into secretory granules in golgi complex.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

84	1001414	Arrange the following options in a correct sequence (A). Mineralocorticoids bind to the mineralocorticoid receptor (MR). (B). The mineralocorticoid receptor resides predominantly in the cytoplasm, complexed with heat-shock proteins (HSPs). (C). When mineralocorticoid binds, the HSPs dissociate, and the mineralocorticoid receptor migrates to the nucleus. (D). In the nucleus, it binds to the promoter region of target genes and regulates transcription. Choose the correct answer from the options given below: 1. (A), (B), (D), (C). 2. (A), (B), (C), (D). 3. (B), (A), (C), (D). 4. (C), (B), (D), (A). A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

85	1001415		4.0	1.00
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All of these are short-acting (duration of action: <24 hours) glucocorticoids **except**:

1. Prednisolone
2. Dexamethasone
3. Prednisone
4. Cortisone

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

86	1001416	Which of the following is the drug of choice for cystic ovaries therapy in cattle? 1. PGF_{2α} 2. GnRH 3. Mifepristone and PGF_{2α} 4. Gonadorelin A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

87	1001417	Which is antiplatelet drugs? 1. Aspirin 2. Clopidogrel 3. Ticlopidine 4. Aprotinin A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

88	1001418		4.0	1.00
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Which one of these options is osmotic diuretics

1. Xipamide
2. Mannitol
3. Dichlorphenamide
4. Canrenone

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

89 1001419

4.0 1.00

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

List-I	List-II D
Drugs	Physical or chemical property
(A). Ispaghula	(I). Adsorptive property
(B). Antacids	(II). Neutralization of gastric acid
(C). Magnesium sulfate	(III). Bulk laxatives
(D). Activated charcoal	(IV). Osmotic activity

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

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

90 1001420

4.0 1.00

Which one of the given choices is GnRH antagonist:

1. Buserelin
2. Leuporelin
3. Goserelin
4. Danazol

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

91 1001421

4.0 1.00

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

List-I	List-II
Enzyme	Competitive inhibitor
(A). Cholinesterase	(I). Moclobemide
(B). Monoamine-oxidase A	(II). Carbidopa
(C). Dopa decarboxylase	(III). Neostigmine
(D). Xanthine oxidase	(IV). Allopurinol

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

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

92 1001422

4.0 1.00

Which drug is suitable in dogs' Benign prostatic hypertrophy?

1. Finasteride
2. Nandrolone
3. Stanazolol
4. Oxytocin

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

93	1001423	Drugs administered through the following route are most likely to be subjected to first-pass metabolism:	4.0	1.00
1. Sublingual route 2. Subcutaneous route 3. Rectal route 4. Oral route				
A1 : 1				
A2 : 2				
A3 : 3				
A4 : 4				

Objective Question

94	1001424	Transdermal drug delivery systems offer the following advantages except:	4.0	1.00
1. They avoid hepatic first-pass metabolism of the drug 2. They minimize interindividual variations in the achieved plasma drug concentration 3. They produce smooth and nonfluctuating plasma concentration of the drug 4. They produce high peak plasma concentration of the drug				
A1 : 1				
A2 : 2				
A3 : 3				
A4 : 4				

Objective Question

95	1001425		4.0	1.00
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Receptor occupation theory of drug action was propounded by:

1. J. N. Langley
2. Paul Ehrlich
3. A. J. Clark
4. Ariens

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

96	1001426	If the total amount of a drug present in the body at a given moment is 2.0 g and its plasma concentration is 20 µg/ml, its volume of distribution is: 1. 50 L 2. 100 L 3. 80 L 4. 60 L A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

97	1001427	Which of the following is not true of the blood-brain barrier: 1. It limits entry of highly ionized drugs into the brain 2. It allows passage of lipid soluble drugs into the brain 3. It is constituted by tight junctions between the endothelial cells of brain capillaries and the glial tissue 4. It regulates passage of substances from brain into blood A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

98	1001428		4.0	1.00
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Weakly acidic drugs:

1. Are bound primarily to α_1 acid glycoprotein in plasma
2. Are highly ionized in the gastric juice
3. Do not cross blood-brain barrier
4. Are excreted faster in alkaline urine

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

99	1001429	Biotransformation of drugs is primarily directed to: 1. Convert lipid soluble drugs into nonlipid soluble metabolites 2. Convert nonlipid soluble drugs into lipid soluble metabolites 3. Always inactivate the drug 4. Always activate the drug A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

100	1001430	Which of the following is a prodrug: 1. Sulfasalazine 2. Clonidine 3. Hydralazine 4. Captopril A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

101	1001431		4.0	1.00
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Which of the following cytochrome P450 isoenzymes is involved in the metabolism of largest number of drugs in animals and has been implicated in some dangerous drug interactions:

1. CYP 2C9
2. CYP 2E1
3. CYP 3A4
4. CYP 1A2

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

102	1001432		4.0	1.00
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The following drug metabolizing reaction is entirely non microsomal:

1. Reduction
2. Oxidation
3. Acetylation
4. Glucuronide conjugation

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

103	1001433		4.0	1.00
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Glomerular filtration of a drug is affected by its:

1. Lipid solubility
2. Plasma protein binding
3. Degree of ionization
4. Rate of tubular secretion

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

104	1001434		4.0	1.00
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If the clearance of a drug remains constant, doubling the dose rate will increase the steady-state plasma drug concentration by a factor of:

1. 1.5
2. 2.0
3. 3.0
4. 1.3

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

105	1001435	When the same dose of a drug is repeated at half life intervals, the steady-state (plateau) plasma drug concentration is reached after: 1. 8–10 half lives 2. 6–7 half lives 3. 4–5 half lives 4. 2–3 half lives A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

106	1001436	These antidiabetic drugs belong to sulfonylureas except: 1. Repaglinide 2. Glipizide 3. Tolbutamide 4. Glibenclamide A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

107	1001437		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): An important mechanism for anti-inflammatory and immunosuppressive effects of glucocorticoids is the inhibition of phospholipase A_2 .

Reason (R): Glucocorticoids enhance the production of lipocortin, which inhibits the enzyme phospholipase A_2 in the cell membrane.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

108 1001438

4.0

1.00

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

Assertion (A): The metabolically active thyroid hormones are the iodothyronines l-thyroxine ($l-T_4$) and triiodothyronine ($l-T_3$).

Reason (R): T_4 is about three to ten times more potent than T_3 .

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

109 1001439

4.0

1.00

The most important factor governing absorption of a drug from intact skin is:

1. Nature of the base used in the formulation
2. Lipid solubility of the drug
3. Site of application
4. Molecular weight of the drug

		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
110	1001440	Which of the following is a weakly acidic drug: 1. Phenytoin sodium 2. Chloroquine phosphate 3. Atropine sulfate 4. Ephedrine hydrochloride A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
111	1001441	Given below are two statements: Statement (I): Tetracyclines bind to bone and teeth. Statement (II): They may produce teeth discoloration and inhibit the growth of long bones in young animals treated with tetracyclines. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
112	1001442		4.0	1.00

		Drugs with no allowable extra-label uses in any food-producing animal species 1. Cephalosporin-class antibiotics 2. Fluoroquinolone-class antibiotics 3. Adamantane and Oseltamivir in all poultry 4. Phenylbutazone– in female dairy cattle (20 months of age or older) A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
113	1001443	Veterinary pharmaceuticals approved by the FDA (2017) for use in small ruminants in minor food-producing animals except: 1. Oxytetracycline in goats ruminal atony 2. Albendazole liquid suspension in Sheep & Goat for liver flukes 3. Penicillin G procaine IM in sheep for respiratory infection 4. Neomycin sulfate powder and liquid in Goats & Sheep for colibacillosis A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
114	1001444	Zafirlukast blocks primarily at the CysLT1 receptor site, therefore blocking the effects of all except: 1. LTC4 2. LTD4 3. LTE4 4. LTB4 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
115	1001445		4.0	1.00

Arrange the following options in a correct sequence

- (A). Stimulation of β_2 receptors in bronchial smooth muscle
- (B). Relaxation of bronchial smooth muscle
- (C). Increased intracellular cyclic AMP
- (D). Increased activity of the enzyme adenylate cyclase

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

116	1001446	Given below are two statements: Statement (I): Cationic aminoglycosides are chemically attracted to anionic membrane phospholipids. Statement (II): The tissues into which gentamicin preferentially accumulates (renal cortex and cochlear tissue) have disproportionately high amounts of phosphatidylinositol in their membranes compared with other tissues of the body. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

117	1001447		4.0	1.00
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Given below are two statements:

Statement (I): Bone marrow injury from chloramphenicol is reversible in animals.

Statement (II): Chloramphenicol causes bone marrow aplasia and is chiefly characterized by profound and persistent pancytopenia in animals

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

118 1001448

Given below are two statements:

Statement (I): Macrolides inhibit protein synthesis by binding the 30S ribosomal subunit at the 23S rRNA site of prokaryote organisms.

Statement (II): Macrolides dissociate peptidyl-tRNA from the ribosomes during the elongation phase, which disrupts the addition of new peptide bonds and thus prevents the synthesis of new proteins.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

119 1001449

4.0

1.00

Given below are two statements:

Statement (I): Rifampin is used for treating lung infections caused by *Rhodococcus equi*.

Statement (II): Rifampin is active against methicillin-resistant *Staphylococcus spp.*

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

120	1001450	Given below are two statements: Statement (I): Methenamine is a urinary antiseptic most commonly used to treat urinary tract infections in small animals. Statement (II): Methenamine is activated by a hydrolysis reaction to form formaldehyde and ammonia in acidic urine. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. 1. Both Statement (I) and Statement (II) are correct. 2. Both Statement (I) and Statement (II) are incorrect. 3. Statement (I) is correct but Statement (II) is incorrect. 4. Statement (I) is incorrect but Statement (II) is correct. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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