

National Testing Agency

Question Paper Name :	Veterinary Physiology 17th September Shift 2
Subject Name :	Veterinary Physiology
Creation Date :	2021-09-17 18:54:35
Duration :	120
Total Marks :	480
Display Marks:	Yes

Veterinary Physiology

Group Number :	1
Group Id :	190889105
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	480
Is this Group for Examiner? :	No

Part A: General Knowledge

Section Id :	190889239
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory

Number of Questions :	20
Number of Questions to be attempted :	20
Section Marks :	80
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	190889279
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 19088911902 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 4 Wrong Marks : 1

Which of the following is the device used to measure the power and speed of the wind?

1. Avometer
2. Anemometer
3. Airometer
4. Aviontimeter

Options :

19088947501. 1
19088947502. 2
19088947503. 3
19088947504. 4

Question Number : 2 Question Id : 19088911903 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 4 Wrong Marks : 1

Optical fibre used the concept of which of the following?

1. Reflection
2. Refraction
3. Total internal reflection
4. Total internal refraction

Options :

19088947505. 1

19088947506. 2

19088947507. 3

19088947508. 4

Question Number : 3 Question Id : 19088911904 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Yellow vein mosaic is the viral disease of which of the following plants?

1. Ladyfinger
2. Papaya
3. Sugarcane
4. Banana

Options :

19088947509. 1

19088947510. 2

19088947511. 3

19088947512. 4

Question Number : 4 Question Id : 19088911905 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following organ(s) is affected by Mumps disease?

1. Entire body
2. Skin
3. Eye
4. Parotid

Options :

19088947513. 1

19088947514. 2

19088947515. 3

19088947516.4

Question Number : 5 Question Id : 19088911906 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is the chemical name of vitamin B₂?

1. Riboflavin
2. Calciferol
3. Pyridoxin
4. Niacin

Options :

19088947517.1

19088947518.2

19088947519.3

19088947520.4

Question Number : 6 Question Id : 19088911907 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is not the input unit of the computer?

1. Mouse
2. Keyboard
3. Screen
4. Scanner

Options :

19088947521.1

19088947522.2

19088947523.3

19088947524.4

Question Number : 7 Question Id : 19088911908 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The digital computer operates on which of the following principle?

1. Measurement
2. Calculation
3. Logical
4. Electrification

Options :

19088947525. 1

19088947526. 2

19088947527. 3

19088947528. 4

Question Number : 8 Question Id : 1908891909 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The non-cooperation movement of Gandhiji was launched in which of the following year?

1. 1915
2. 1922
3. 1920
4. 1930

Options :

19088947529. 1

19088947530. 2

19088947531. 3

19088947532. 4

Question Number : 9 Question Id : 1908891910 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

An Islamic revivalist movement named Wahabi movement was founded by which of the following person?

1. Sian Saheb
2. Syed Ahmed
3. Haji Shariat-Allah
4. DaduMian

Options :

19088947533. 1

19088947534. 2

19088947535. 3

19088947536. 4

Question Number : 10 Question Id : 19088911911 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is considered as the “Magna Carta of England Education in India”?

1. Hunter education commission
2. Lord Macaulay’s Minute
3. Wood’s Despatch
4. Thomas Babington Macaulay

Options :

19088947537. 1

19088947538. 2

19088947539. 3

19088947540. 4

Question Number : 11 Question Id : 19088911912 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following nutrient does not come under the ambit of 'macro-nutrients in Soil Health Card?

1. Nitrogen
2. Zinc
3. Phosphorous
4. Potassium

Options :

19088947541. 1

19088947542. 2

19088947543. 3

19088947544. 4

Question Number : 12 Question Id : 19088911913 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Cole crops, root crops and legumes come under the ambit of which of the following?

1. Olericulture
2. Pomology
3. Viticulture
4. Arboriculture

Options :

19088947545. 1

19088947546. 2

19088947547. 3

19088947548. 4

Question Number : 13 Question Id : 19088911914 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The study of individual trees, shrubs, vines, and perennial woody plants is known as which of the following?

1. Turf management
2. Arboriculture
3. Pomology
4. Viticulture

Options :

19088947549. 1

19088947550. 2

19088947551. 3

19088947552. 4

Question Number : 14 Question Id : 19088911915 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The ministry is implementing MIDH (Mission for Integrated Development of Horticulture) with effect from which of the following year?

1. 2012-13
2. 2019-20
3. 2015-16
4. 2014-15

Options :

19088947553. 1

19088947554. 2

19088947555. 3

19088947556. 4

Question Number : 15 Question Id : 19088911916 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The interaction of soils with living things, particularly plants are well known as which of the following?

1. Edaphology
2. Pedology
3. Soil zoology
4. Pedogenesis

Options :

19088947557. 1

19088947558. 2

19088947559. 3

19088947560. 4

Question Number : 16 Question Id : 19088911917 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following systems has also incorporated social aspects in itself?

1. Landscaping
2. Permaculture
3. Horticulture
4. Forest gardening

Options :

19088947561. 1

19088947562. 2

19088947563. 3

19088947564. 4

Question Number : 17 Question Id : 19088911918 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What do you term the phenomenon whereby the specific gene is added to the plant for producing a desirable phenotype?

1. Genetic manipulation
2. Genetic recombination
3. Genetic modification
4. Genetic hybridisation

Options :

19088947565. 1

19088947566. 2

19088947567. 3

19088947568. 4

**Question Number : 18 Question Id : 19088911919 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

What is the focus of the participatory plant breeding program?

1. Scientists
2. Plants
3. Environment
4. Farmers

Options :

19088947569. 1

19088947570. 2

19088947571. 3

19088947572. 4

**Question Number : 19 Question Id : 19088911920 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

How do you term the form of agriculture, in which, industrialized production of crops and animal products takes place?

1. Manufactured agriculture
2. Modern agriculture
3. Industrial agriculture
4. Mechanistic agriculture

Options :

19088947573. 1

19088947574. 2

19088947575. 3

19088947576. 4

Question Number : 20 Question Id : 19088911921 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Micro-irrigation fund of Rs. 5.000 crore has been placed with which of the following organization?

1. NABARD
2. IDBI
3. SBI
4. RRBs

Options :

19088947577. 1

19088947578. 2

19088947579. 3

19088947580. 4

Part B Core : Veterinary and Animal Sciences-IV

Section Id : 190889240

Section Number : 2

Section type : Online

Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	190889280
Question Shuffling Allowed :	Yes

**Question Number : 21 Question Id : 19088911922 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

If protein concentration in the interstitial space increases the GFR will

- | | |
|---------------|----------------------------------|
| (1) Decrease | (2) Increase |
| (3) No change | (4) First increase then decrease |

Options :

19088947581. 1

19088947582. 2

19088947583. 3

19088947584. 4

**Question Number : 22 Question Id : 19088911923 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following cells secrete testosterone?

- | | |
|----------------------------------|-----------------------|
| (1) Leydig cells and theca cells | (2) Sertoli cells |
| (3) Granulosa cells | (4) Leydig cells only |

Options :

19088947585. 1

19088947586. 2

19088947587. 3

19088947588. 4

Question Number : 23 Question Id : 19088911924 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following anti coagulants is recommended for hematological examination

- | | |
|---------------------|-----------------------|
| (1) Sodium flouride | (2) Ammonium sulphate |
| (3) EDTA | (4) Sodium citrate |

Options :

19088947589. 1

19088947590. 2

19088947591. 3

19088947592. 4

Question Number : 24 Question Id : 19088911925 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Analogous structure to Z disc in smooth muscle fiber is

- | | |
|----------------|------------------|
| (1) Actin | (2) Myosin |
| (3) Calmodulin | (4) Dense bodies |

Options :

19088947593. 1

19088947594. 2

19088947595. 3

19088947596. 4

Question Number : 25 Question Id : 19088911926 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In Myasthenia gravis there is

- (1) Less secretion of Acetyl choline
- (2) More activity of Acetyl choline esterase
- (3) Acetyl choline receptors at postsynaptic membrane increase in number
- (4) Acetyl choline receptors are inactivated due to antigen-antibody reaction

Options :

19088947597. 1

19088947598. 2

19088947599. 3

19088947600. 4

**Question Number : 26 Question Id : 19088911927 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Aldosterone is mainly secreted when

- (1) There is increase in K^+ in the blood circulation
- (2) There is decrease in K^+ in the blood circulation
- (3) There is decrease in Na^+ in the blood circulation
- (4) There is increase in Na^+ in the blood circulation

Options :

19088947601. 1

19088947602. 2

19088947603. 3

19088947604. 4

**Question Number : 27 Question Id : 19088911928 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following can not decrease methane emission

- (1) More concentrate diet
- (2) More unsaturated fatty acids in diet
- (3) Defaunation
- (4) More cellulose rich diet

Options :

19088947605. 1

19088947606. 2

19088947607. 3

19088947608. 4

**Question Number : 28 Question Id : 19088911929 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

The body fat in ruminants is mostly

- (1) Unsaturated
- (2) Saturated
- (3) Quality of fat depends on type of diet
- (4) Level of saturation depends upon type of organ

Options :

19088947609. 1

19088947610. 2

19088947611. 3

19088947612. 4

**Question Number : 29 Question Id : 19088911930 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following have receptors in cell membrane

- (1) T₃/T₄ (2) Epinephrine/Nor epinephrine
(3) Vit D₃ (4) Aldosterone

Options :

19088947613. 1

19088947614. 2

19088947615. 3

19088947616. 4

**Question Number : 30 Question Id : 19088911931 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following pair is not correct regarding number of carbons in the steroid hormones?

- (1) Corticoids-21C (2) Progesterone-20C
(3) Testosterone-19C (4) Estrogen-18C

Options :

19088947617. 1

19088947618. 2

19088947619. 3

19088947620. 4

**Question Number : 31 Question Id : 19088911932 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Given below are two statements : one is labelled as Assertion A and the other is labelled as Reason R

Assertion A : PMSG is necessary for maintenance of pregnancy in mare.

Reason R : PMSG has more of FSH like activity and less of LH like activity.

In the 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

Options :

19088947621. 1

19088947622. 2

19088947623. 3

19088947624. 4

Question Number : 32 Question Id : 19088911933 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements : one is labelled as Assertion A and the other is labelled as Reason R

Assertion A : Progesterone sponges are used to lengthen the onset of heat in cattle.

Reason R : Progesterone reduces the secretion of estrogen.

In the 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

Options :

19088947625. 1

19088947626. 2

19088947627. 3

19088947628. 4

**Question Number : 33 Question Id : 19088911934 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Given below are two statements :

Statement I : In ruminants fats can not be synthesized from glucose.

Statements II : Propionate is the gluconeogenic substance which is precursor in lactose synthesis

In the light of the above statements, choose the correct 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 correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true

Options :

19088947629. 1

19088947630. 2

19088947631. 3

19088947632. 4

**Question Number : 34 Question Id : 19088911935 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Given below are two statements : One is labelled as Assertion A and the other is labelled as Reason R

Assertion A : Evaporative heat loss mechanism is most efficient heat loss mechanisms in domestic animals.

Reason R : Water has a very high latent heat of vaporization

In the 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

Options :

19088947633. 1

19088947634. 2

19088947635. 3

19088947636. 4

Question Number : 35 Question Id : 19088911936 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements :

Statement I : Semi-circular canal helps in the equilibrium.

Statement II : Organ of corti is the main part of the ear where the sound waves cause depolarization.

In the light of the above statements, choose the correct 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 correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true

Options :

19088947637. 1

19088947638. 2

19088947639. 3

19088947640. 4

Question Number : 36 Question Id : 19088911937 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

For better utilization of dietary urea which of the following is required

- | | |
|------------------------------|----------------------------------|
| (1) Soluble sugar | (2) Good quality protein in diet |
| (3) Good quality fat is diet | (4) Good quality green fodder |

Options :

19088947641. 1

19088947642. 2

19088947643. 3

19088947644. 4

**Question Number : 37 Question Id : 19088911938 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Ketone bodies in urine are tested by

- | | |
|-------------------------------|------------------|
| (1) Sodium nitroprusside test | (2) Hay's test |
| (3) Benzedene test | (4) Sulphur test |

Options :

19088947645. 1

19088947646. 2

19088947647. 3

19088947648. 4

**Question Number : 38 Question Id : 19088911939 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

The normal ratio of bicarbonate buffer in plasma is

- | | |
|----------|----------|
| (1) 20:1 | (2) 1:20 |
| (3) 1:2 | (4) 2:1 |

Options :

19088947649. 1

19088947650. 2

19088947651. 3

19088947652. 4

Question Number : 39 Question Id : 19088911940 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

All types of carbohydrates can be identified by

- | | |
|-----------------------|--------------------|
| (1) Selivanoff's test | (2) Barfoed's test |
| (3) Benedict's test | (4) Molisch's test |

Options :

19088947653. 1

19088947654. 2

19088947655. 3

19088947656. 4

Question Number : 40 Question Id : 19088911941 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of these amino acids contains two chiral carbons in their structure?

- | | |
|----------------|--------------|
| (1) Valine | (2) Leucine |
| (3) Isoleucine | (4) Cysteine |

Options :

19088947657. 1

19088947658. 2

19088947659. 3

19088947660. 4

Question Number : 41 Question Id : 19088911942 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of these is /are examples of sphingolipids?

- (A) Cephalin
- (B) Sphingomyelin
- (C) Cardiolipin
- (D) GM2
- (E) Nervon

Choose the correct answer from the options given below :

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

Options :

19088947661. 1

19088947662. 2

19088947663. 3

19088947664. 4

Question Number : 42 Question Id : 19088911943 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Gamma glutamyl transferase is most specific indicator of

- (1) Bone cancer
- (2) Cardiac infarction
- (3) Prostate cancer
- (4) Alcoholic cirrhosis

Options :

19088947665. 1

19088947666. 2

19088947667. 3

19088947668. 4

Question Number : 43 Question Id : 19088911944 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Enzymes present in inactive form are called as

- (A) Pre enzyme
- (B) Pro enzyme
- (C) Prepro enzyme
- (D) Zymogen
- (E) Abzyme

Choose the correct answer from the options given below :

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

Options :

19088947669. 1

19088947670. 2

19088947671. 3

19088947672. 4

Question Number : 44 Question Id : 19088911945 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of these is/are examples of Ketone body?

- (A) Acetic acid
- (B) Aceto acetic acid
- (C) Beta hydroxybutyric acid
- (D) Acetone
- (E) Butyric acid

Choose the most appropriate answer from the options given below :

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

Options :

- 19088947673. 1
- 19088947674. 2
- 19088947675. 3
- 19088947676. 4

**Question Number : 45 Question Id : 19088911946 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1**

Match List I with List II

List I

List II

- | | |
|--------------------------------------|-------------------------------------|
| (A) DNA polymerase- α (alpha) | (I) Replication leading strand |
| (B) DNA polymerase- β (beta) | (II) Replication lagging strand |
| (C) DNA polymerase- γ (gama) | (III) Replication mitochondrial DNA |
| (D) DNA polymerase- Δ (Delta) | (IV) DNA repair |

Choose the most appropriate 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)-(II), (B)-(IV), (C)-(III), (D)-(I)
- (4) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)

Options :

19088947677. 1
19088947678. 2
19088947679. 3
19088947680. 4

Question Number : 46 Question Id : 19088911947 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Deficiency of Vitamin E may cause :

- (A) White muscle disease (B) Fibro cystic breast disease
(C) Pellagra (D) Xerophthalmia

Choose the most appropriate answer from the options given below :

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

Options :

19088947681. 1

19088947682. 2

19088947683. 3

19088947684. 4

Question Number : 47 Question Id : 19088911948 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Total plasma protein can be estimated by :

- (A) Biuret method (B) Bromocresol green dye method
(C) Brad–ford method (D) Lowry's method

Choose the most appropriate answer from the options given below :

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

Options :

19088947685. 1

19088947686. 2

19088947687. 3

19088947688. 4

**Question Number : 48 Question Id : 19088911949 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Purity of DNA in a sample can be determined by measuring absorbance at :

(A) 220 A°

(B) 260 A°

(C) 280 A°

(D) 260 : 280 A° ratio

Choose the most appropriate answer from the options given below :

(1) (B) and (D) only

(2) (C) and (D) only

(3) (D) only

(4) (A) only

Options :

19088947689. 1

19088947690. 2

19088947691. 3

19088947692. 4

**Question Number : 49 Question Id : 19088911950 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of these can be used as a matrix for gel filtration chromatography?

- (A) Carboxy methyl (CM) (B) Diethyl Amino Ethyl (DEAE)
(C) Dextran (D) Agarose
(E) Silica

Choose the most appropriate answer from the options given below :

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

Options :

19088947693. 1

19088947694. 2

19088947695. 3

19088947696. 4

Question Number : 50 Question Id : 19088911951 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of these is/are hyper calcemic hormone?

- (A) Calcitonin (B) Parathyroid hormone
(C) Calcitriol (D) Glucocorticoid
(E) Testosterone

Choose the correct answer from the options given below :

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

Options :

19088947697. 1

19088947698. 2

19088947699. 3

19088947700. 4

Question Number : 51 Question Id : 19088911952 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements : One is labelled as Assertion A and the other is labelled as Reason R

Assertion A : Level of direct bilirubin increases in obstructive jaundice

Reason R : Obstructive jaundice causes increased rate of conjugation in liver

In the 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

Options :

19088947701. 1

19088947702. 2

19088947703. 3

19088947704. 4

Question Number : 52 Question Id : 19088911953 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statement :

Statement I : One mRNA can be translated into one or more proteins.

Statement II : Alternate splicing/RNA editing of mRNA may translate/form two or more proteins.

In the light of the above statements, choose the *correct* 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 correct but statement II is false
- (4) Statement I is incorrect but statement II is true

Options :

19088947705. 1

19088947706. 2

19088947707. 3

19088947708. 4

Question Number : 53 Question Id : 19088911954 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of these termination codons is also known as 'Ochre'?

(1) UAA

(2) UAG

(3) UGA

(4) AUG

Options :

19088947709. 1

19088947710. 2

19088947711. 3

19088947712. 4

Question Number : 54 Question Id : 19088911955 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

RFLP stands for

(1) Recognition fragment length polymorphism

(2) Restriction fragment length polymorphism

(3) Restriction fragment locus polymorphism

(4) Restriction fragment length polymerase

Options :

19088947713. 1

19088947714. 2

19088947715. 3

19088947716. 4

Question Number : 55 Question Id : 19088911956 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In prokaryotes, TATAAT sequence is present at _____ bases upstream of initiation site of transcription

- | | |
|------------|-------------|
| (1) -35 bp | (2) -10 bp |
| (3) -25 bp | (4) -105 bp |

Options :

19088947717. 1

19088947718. 2

19088947719. 3

19088947720. 4

Question Number : 56 Question Id : 19088911957 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements :

Statement I : Trans Golgi Network is the last sorting station of proteins that directs protein to various destinations.

Statement II : Protein synthesis and post-translation modification occurs in rough endoplasmic reticulum.

In the 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

Options :

19088947721. 1

19088947722. 2

19088947723. 3

19088947724. 4

**Question Number : 57 Question Id : 19088911958 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

In Electron Transport Chain (ETC), which metal ion acts as membrane bound electron carriers

(A) Mg

(B) Ca

(C) Na

(D) Cu

Choose the most appropriate answer from the options given below :

(1) (A) and (D) only

(2) (A) and (B) only

(3) (B) and (C) only

(4) (D) only

Options :

19088947725. 1

19088947726. 2

19088947727. 3

19088947728. 4

**Question Number : 58 Question Id : 19088911959 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Given below are two statements :

Statement I : A cell contains one apical, two lateral and one basal plasma membrane

Statement II : Apical plasma membrane contains proteins and responsible for intra cellular interactions in association with extracellular matrix.

In the 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

Options :

19088947729. 1

19088947730. 2

19088947731. 3

19088947732. 4

Question Number : 59 Question Id : 19088911960 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements :

Statement I : Codons are degenerate in nature.

Statement II : The frequency of codons, codon usage biasness, controls the translation of protein, which varies among species.

In the 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

Options :

19088947733. 1

19088947734. 2

19088947735. 3

19088947736. 4

Question Number : 60 Question Id : 19088911961 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II :

List I	List II
(a) mRNA	(i) Non-coding RNA
(b) rRNA	(ii) Gene expression study
(c) tRNA	(iii) 5S
(d) miRNA	(iv) Gene silencing

Choose the correct answer from the options given below:

- (1) (a)-(ii), (b)-(iii), (c)-(iv), (d)-(i)
- (2) (a)-(ii), (b)-(iv), (c)-(iii), (d)-(i)
- (3) (a)-(i), (b)-(iii), (c)-(iv), (d)-(ii)
- (4) (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)

Options :

19088947737. 1

19088947738. 2

19088947739. 3

19088947740. 4

Question Number : 61 Question Id : 19088911962 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements :

Statement I : Transcription of all 3-types of RNA is done by RNA polymerase II

Statement II : RNA polymerase II is the only nuclear RNA polymerase of eukaryotic cell

In the 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

Options :

19088947741. 1

19088947742. 2

19088947743. 3

19088947744. 4

Question Number : 62 Question Id : 19088911963 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Gene silencing can be done by

(1) Sno RNA

(2) Si RNA

(3) hn RNA

(4) tRNA

Options :

19088947745. 1

19088947746. 2

19088947747. 3

19088947748. 4

Question Number : 63 Question Id : 19088911964 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements : One is labelled as Assertion A and the other is labelled as Reason R

Assertion A : Many of the extracellular protein binds to integrins and involves in adhesion or transmission of cell signalling

Reasons R : Integrins contain tripeptide amino acid sequences of arginine-glycine-aspartic acid (RGD)

In the 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

Options :

19088947749. 1

19088947750. 2

19088947751. 3

19088947752. 4

Question Number : 64 Question Id : 19088911965 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Gap junctions have a simple molecular composition and they are entirely composed of integral membrane protein called

- | | |
|--------------|----------------------|
| (1) Cadherin | (2) β -catenin |
| (3) Annexin | (4) Connexin |

Options :

19088947753. 1

19088947754. 2

19088947755. 3

19088947756. 4

Question Number : 65 Question Id : 19088911966 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

p53 is a/an,

- | | |
|---------------------------|-----------------------|
| (1) Proto oncogene | (2) Oncogene |
| (3) Tumor suppressor gene | (4) Pluripotency gene |

Options :

19088947757. 1

19088947758. 2

19088947759. 3

19088947760. 4

Question Number : 66 Question Id : 19088911967 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

DNA quantity in the sample is determined by

- (A) Absorbance at A 260 using nanodrop
- (B) Dye based technique using orbit
- (C) PCR
- (D) Bradford assay

Choose the most appropriate answer from the options given below :

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

Options :

19088947761. 1

19088947762. 2

19088947763. 3

19088947764. 4

**Question Number : 67 Question Id : 19088911968 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

RT-PCR differs from PCR in terms of

- | | |
|-----------------------------|--|
| (1) Template cDNA | (2) Efficiency of amplification |
| (3) Speed of polymerization | (4) Sensitivity-RT PCR is more sensitive |

Options :

19088947765. 1

19088947766. 2

19088947767. 3

19088947768. 4

**Question Number : 68 Question Id : 19088911969 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Given below are two statements : One is labelled as Assertion A and the other is labelled as Reason R

Assertion A : Cell fusion is a technique where two different cell types or cells from two different species can be fused to produce one cell

Reason R : Cells can be fused by addition of certain inactivated viruses that attach to the surface membrane

In the 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

Options :

19088947769. 1

19088947770. 2

19088947771. 3

19088947772. 4

Question Number : 69 Question Id : 19088911970 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

A type II topo-isomerase that relieves the mechanical strain of DNA which builds up during replication is

- | | |
|------------------|----------------|
| (1) DNA gyrase | (2) Primase |
| (3) DNA helicase | (4) DNA ligase |

Options :

19088947773. 1

19088947774. 2

19088947775. 3

19088947776. 4

Question Number : 70 Question Id : 19088911971 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Pluripotency genes are present in which type(s) of cells

- (A) Embryonic stem cells
- (B) Cancer stem cells
- (C) Progenitor cells
- (D) Mammary epithelial cells

Choose the most appropriate answer from the options given below :

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

Options :

19088947777. 1

19088947778. 2

19088947779. 3

19088947780. 4

Part C : Veterinary Physiology

Section Id :	190889241
Section Number :	3
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	190889281
Question Shuffling Allowed :	Yes

**Question Number : 71 Question Id : 19088911972 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which type of fluid is maximum in the body?

- | | |
|-------------------------|-------------------------|
| (1) Intracellular fluid | (2) Extracellular fluid |
| (3) Interstitial fluid | (4) Transcellular fluid |

Options :

19088947781. 1

19088947782. 2

19088947783. 3

19088947784. 4

**Question Number : 72 Question Id : 19088911973 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Intracellular fluid content can be measured using

- | | |
|----------------|---------------------------------------|
| (1) Evans Blue | (2) Tritium |
| (3) Inulin | (4) It can not be measured by any dye |

Options :

19088947785. 1

19088947786. 2

19088947787. 3

19088947788. 4

**Question Number : 73 Question Id : 19088911974 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

If a dog has 10 gm/dL of hemoglobin, it can carry

- | | |
|-----------------------|-----------------------|
| (1) 13.4 ml of oxygen | (2) 16.4 ml of oxygen |
| (3) 10.0 ml of oxygen | (4) 15.0 ml of oxygen |

Options :

19088947789. 1

19088947790. 2

19088947791. 3

19088947792. 4

**Question Number : 74 Question Id : 19088911975 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

How much time is taken by a rubriblast to get converted into erythrocyte?

- (1) 14-15 days (2) 10-15 days
(3) 4-5 days (4) 2-3 days

Options :

19088947793. 1

19088947794. 2

19088947795. 3

19088947796. 4

Question Number : 75 Question Id : 19088911976 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements : One is labelled as Assertion (A) and the other is labelled as Reason (R)

Assertion (A) : Number of eosinophils increase during allergic reactions.

Reason (R) : Eosinophils secrete histaminase enzyme which neutralizes the allergy mediators like histamine.

In the 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

Options :

19088947797. 1

19088947798. 2

19088947799. 3

19088947800. 4

Question Number : 76 Question Id : 19088911977 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following cells have least diapedesis like movement?

- (1) Neutrophils (2) Eosinophils
(3) Basophils (4) Lymphocytes

Options :

19088947801. 1

19088947802. 2

19088947803. 3

19088947804. 4

Question Number : 77 Question Id : 19088911978 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

SA node has a resting membrane potential of

- (1) -80 mV (2) -60 mV
(3) -40 mV (4) -70 mV

Options :

19088947805. 1

19088947806. 2

19088947807. 3

19088947808. 4

Question Number : 78 Question Id : 19088911979 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

If there is fibrosis of the atrium then

- A. PR segment may be longer
B. Amplitude of the QRS complex may be shorter
C. The conduction time from atrium to ventricle will increase

Choose the correct answer from the options given below :

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

Options :

19088947809. 1

19088947810. 2

19088947811. 3

19088947812. 4

Question Number : 79 Question Id : 19088911980 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following may cause hyperpolarization of a cell?

- A. Opening of Cl^- channel
- B. Opening of K^+
- C. Opening of Na^+ channel
- D. Opening of Ca^{2+} channel

Choose the correct answer from the options given below :

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

Options :

19088947813. 1

19088947814. 2

19088947815. 3

19088947816. 4

Question Number : 80 Question Id : 19088911981 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Cardiac output is negatively affected by

- A. Preload
- B. Afterload
- C. Force of contraction
- D. Heart Rate

Choose the correct answer from the options given below :

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

Options :

19088947817. 1

19088947818. 2

19088947819. 3

19088947820. 4

**Question Number : 81 Question Id : 19088911982 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

If the breathing is done by mouth

- (1) The moisture content in inspired air increases
- (2) Moisture content in the inspired air decreases
- (3) Less amount of air reaches to the lungs
- (4) Less dust particles reaches to lung

Options :

19088947821. 1

19088947822. 2

19088947823. 3

19088947824. 4

**Question Number : 82 Question Id : 19088911983 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Given below are two statements : One is labelled as Assertion (A) and the other is labelled as Reason (R)

Assertion (A) : For exchange of CO₂ in the tissue or in the lungs lesser gradient of partial pressure is required as compared to oxygen.

Reason (R) : Oxygen has more solubility than carbondioxide.

In the 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

Options :

19088947825. 1

19088947826. 2

19088947827. 3

19088947828. 4

Question Number : 83 Question Id : 19088911984 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

At a PO₂ of 100 mm Hg, hemoglobin saturation with oxygen is

- | | |
|---------|----------|
| (1) 97% | (2) 100% |
| (3) 90% | (4) 95% |

Options :

19088947829. 1

19088947830. 2

19088947831. 3

19088947832. 4

Question Number : 84 Question Id : 19088911985 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements :

Statement I : Respiratory center in brain is not/less responsive to metabolic acidosis.

Statement II : H^+ poorly crosses the blood brain barrier.

In the light of the above statements, choose the correct 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

Options :

19088947833. 1

19088947834. 2

19088947835. 3

19088947836. 4

Question Number : 85 Question Id : 19088911986 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is present in lower concentration in urine as compared to plasma during normal physiological conditions?

- | | |
|---------------|------------|
| (1) Na^+ | (2) K^+ |
| (3) HCO_3^- | (4) Cl^- |

Options :

19088947837. 1

19088947838. 2

19088947839. 3

19088947840. 4

Question Number : 86 Question Id : 19088911987 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The co-transport system present in the thick loop of Henle is

- (1) $\text{Na}^+ - \text{K}^+ - 2\text{Cl}^-$ (2) $\text{Na}^+ - \text{Cl}^-$
(3) $\text{Cl}^- - \text{K}^+$ (4) $\text{Na}^+ - \text{HCO}_3^-$

Options :

19088947841. 1

19088947842. 2

19088947843. 3

19088947844. 4

Question Number : 87 Question Id : 19088911988 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following statement is incorrect?

- (1) If the concentration of glucose increases beyond 180 mg/dL, it appears in urine
(2) During excessive acidosis, amino-acid buffer system in the kidney is activated
(3) Differential permeability of loop of henle helps in maintaining osmolar gradient in the cortex
(4) Counter current mechanism helps in information of concentrated urine

Options :

19088947845. 1

19088947846. 2

19088947847. 3

19088947848. 4

Question Number : 88 Question Id : 19088911989 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following species have less developed rumen?

- (1) Cattle (2) Buffalo
(3) Llama (4) Giraffe

Options :

19088947849. 1

19088947850. 2

19088947851. 3

19088947852. 4

**Question Number : 89 Question Id : 19088911990 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following statement is correct?

- (1) Autonomic nervous system does not influence the intestinal secretion
- (2) Spike potential is generated into the intestine when food enters into the intestine
- (3) Rhythmic contraction in the intestine is controlled by centers in brain
- (4) Local secretions in the intestine do not control it's motility

Options :

19088947853. 1

19088947854. 2

19088947855. 3

19088947856. 4

**Question Number : 90 Question Id : 19088911991 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Ruminant saliva is

- | | |
|----------------|--------------------------------------|
| (1) Isotonic | (2) Hypotonic |
| (3) Hypertonic | (4) Tonicity depends on type of food |

Options :

19088947857. 1

19088947858. 2

19088947859. 3

19088947860. 4

**Question Number : 91 Question Id : 19088911992 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Given below are two statements :

Statement I : Gastric mucosal barrier is essential.

Statement II : In absence of gastric mucosal barrier, it may cause ulcers in the intestine.

In the light of the above statements, choose the more 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

Options :

19088947861. 1

19088947862. 2

19088947863. 3

19088947864. 4

**Question Number : 92 Question Id : 19088911993 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following is secreted from stomach?

- A. Pepsin
- B. Gastrin
- C. Somatostatin
- D. Histamine

Choose the most appropriate answer from the options given below :

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

Options :

19088947865. 1

19088947866. 2

19088947867. 3

19088947868. 4

Question Number : 93 Question Id : 19088911994 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements : One is labelled as Assertion (A) and the other is labelled as Reason (R)

Assertion (A) : H-2 receptor blocker reduces the secretion of HCl in stomach.

Reason (R) : H-2 receptor blockers reduce the secretion of histamine from enterochromafin cells.

In the 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

Options :

19088947869. 1

19088947870. 2

19088947871. 3

19088947872. 4

**Question Number : 94 Question Id : 19088911995 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which one of the following are not the products of digestion of α -amylase?

- | | |
|------------------|------------------------------|
| (1) Maltose | (2) α -limit dextrins |
| (3) Malto-triose | (4) Dexto-triose |

Options :

19088947873. 1

19088947874. 2

19088947875. 3

19088947876. 4

**Question Number : 95 Question Id : 19088911996 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following is produced more when concentrate rich diet is given to ruminants?

- | | |
|--------------|----------------|
| (1) Acetate | (2) Propionate |
| (3) Butyrate | (4) Lactate |

Options :

19088947877. 1

19088947878. 2

19088947879. 3

19088947880. 4

**Question Number : 96 Question Id : 19088911997 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which one of the following can digest cellulose?

- A. Protozoa
- B. Bacteria
- C. Fungi

Choose the most appropriate answer from the options given below :

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

Options :

19088947881. 1

19088947882. 2

19088947883. 3

19088947884. 4

**Question Number : 97 Question Id : 19088911998 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

If unsaturated fatty acids are given in the diet to the ruminants, it may cause

- (1) Increase in H^+ synthesis
- (2) More methane emission
- (3) Less methane emission
- (4) More propionate production

Options :

19088947885. 1

19088947886. 2

19088947887. 3

19088947888. 4

**Question Number : 98 Question Id : 19088911999 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which one of the following gases are produced in highest quantities in rumen?

- (1) Methane (2) Hydrogen sulphide
(3) Carbondioxide (4) Oxygen

Options :

19088947889. 1

19088947890. 2

19088947891. 3

19088947892. 4

Question Number : 99 Question Id : 19088912000 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which one of the following do not change it's position during muscle contraction?

- (1) Actin filament (2) Myosin filament
(3) Z line (4) H line

Options :

19088947893. 1

19088947894. 2

19088947895. 3

19088947896. 4

Question Number : 100 Question Id : 19088912001 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements :

Statement I : Muscle contraction in skeletal muscle is initiated once calcium level increases.

Statement II : Muscle contraction can not be initiated unless myosin kinase is activated.

In the 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

Options :

19088947897. 1

19088947898. 2

19088947899. 3

19088947900. 4

Question Number : 101 Question Id : 19088912002 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In a neuron the action potential is first generated at

- | | |
|----------------------|------------------|
| (1) Soma | (2) Dendrite |
| (3) Nodes of Ranvier | (4) Axon Hillonk |

Options :

19088947901. 1

19088947902. 2

19088947903. 3

19088947904. 4

Question Number : 102 Question Id : 19088912003 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements :

Statement I : IPSP is generated when there is opening Cl^- and K^+ channel.

Statement II : EPSP is generated when Na^+ or Ca^{2+} channel open.

In the light of the above statements, choose the correct 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 correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true

Options :

19088947905. 1

19088947906. 2

19088947907. 3

19088947908. 4

Question Number : 103 Question Id : 19088912004 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Pain fibers that conduct impulse from sensory organ to spinal chord are

- | | |
|--------------------|---------------------------------|
| (1) $A\alpha$ type | (2) $A\beta$ type |
| (3) C type | (4) $A\alpha$ and $A\beta$ type |

Options :

19088947909. 1

19088947910. 2

19088947911. 3

19088947912. 4

Question Number : 104 Question Id : 19088912005 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which one of the following do not have receptors in the nucleus?

- | | |
|------------------------|------------------|
| (1) Aldosterone | (2) Inhibin |
| (3) Vit D ₃ | (4) Testosterone |

Options :

19088947913. 1

19088947914. 2

19088947915. 3

19088947916. 4

Question Number : 105 Question Id : 19088912006 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Half life of which one of the following is highest

- | | |
|----------|---------|
| (1) PMSG | (2) LCG |
| (3) LH | (4) FSH |

Options :

19088947917. 1

19088947918. 2

19088947919. 3

19088947920. 4

Question Number : 106 Question Id : 19088912007 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which one of the following is diabetogenic in nature?

- A. Growth hormone
- B. Cortisol
- C. Glucagon
- D. T₄

Choose the most appropriate answer from the options given below :

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

Options :

19088947921. 1

19088947922. 2

19088947923. 3

19088947924. 4

**Question Number : 107 Question Id : 19088912008 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Given below are two statements :

Statement I : The hormone secretion from adrenal medulla are directly controlled by sympathetic and parasympathetic nervous system.

Statement II : The hormone secretion from adrenal cortex are partially regulated by hypothalamus and pituitary.

In the 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

Options :

19088947925. 1

19088947926. 2

19088947927. 3

19088947928. 4

Question Number : 108 Question Id : 19088912009 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Reverse T_3 is synthesized from

- | | |
|-----------|-----------|
| (1) T_3 | (2) T_4 |
| (3) MIT | (4) DIT |

Options :

19088947929. 1

19088947930. 2

19088947931. 3

19088947932. 4

Question Number : 109 Question Id : 19088912010 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following statement is incorrect?

- (1) The number of myoepithelial cells change with lactation stage
- (2) The number of alveolar cells changes with change in lactation stage
- (3) Estrogen helps in duct development of mammary gland
- (4) Progesterone helps in alveoli development of mammary gland

Options :

19088947933. 1

19088947934. 2

19088947935. 3

19088947936. 4

Question Number : 110 Question Id : 19088912011 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which one of the following is not synthesized in mammary gland?

- A. Vitamins
- B. Minerals
- C. Proteins
- D. Immunoglobulins

Choose the correct answer from the options given below :

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

Options :

19088947937. 1

19088947938. 2

19088947939. 3

19088947940. 4

Question Number : 111 Question Id : 19088912012 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In case of cattle fetus, differentiation of sex begins at the age of

- (1) 5 weeks
- (2) 4 weeks
- (3) 6 weeks
- (4) 10 weeks

Options :

19088947941. 1

19088947942. 2

19088947943. 3

19088947944. 4

Question Number : 112 Question Id : 19088912013 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Number of Spermatozoa that could be formed from one spermatogonium is

- (1) 16 (2) 8
(3) 32 (4) 64

Options :

19088947945. 1

19088947946. 2

19088947947. 3

19088947948. 4

**Question Number : 113 Question Id : 19088912014 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Time taken by spermatogonia A to convert into a spermatozoa in case of cattle is

- (1) 60 – 70 days (2) 50 – 55 days
(3) 40 – 45 days (4) 30 – 35 days

Options :

19088947949. 1

19088947950. 2

19088947951. 3

19088947952. 4

**Question Number : 114 Question Id : 19088912015 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which one of the following species ovulation occurs after the end of the estrus?

- (1) Ewe (2) Sow
(3) Cattle (4) Horse

Options :

19088947953. 1

19088947954. 2

19088947955. 3

19088947956. 4

**Question Number : 115 Question Id : 19088912016 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Gonadotropin independent follicular stages are

- (1) Primary follicle (2) Primary and Secondary follicle
(3) Secondary and Tertiary follicle (4) Tertiary and quaternary follicle

Options :

19088947957. 1

19088947958. 2

19088947959. 3

19088947960. 4

**Question Number : 116 Question Id : 19088912017 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

In case of follicular cyst which was of the following hormones should be administered

- (1) hCG (2) LH
(3) GnRH and FSH (4) hCG and LH

Options :

19088947961. 1

19088947962. 2

19088947963. 3

19088947964. 4

**Question Number : 117 Question Id : 19088912018 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Dry and Wet bulb temperature can be used to measure/calculate

- A. Relative humidity
- B. Dew point
- C. THI

Choose the most appropriate answer from the options given below :

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

Options :

19088947965. 1

19088947966. 2

19088947967. 3

19088947968. 4

Question Number : 118 Question Id : 19088912019 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which one of the following is a heat loss mechanism?

- A. Vasodilation
- B. Vasoconstriction
- C. Panting
- D. Sweating

Choose the most appropriate answer from the options given below :

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

Options :

19088947969. 1

19088947970. 2

19088947971. 3

19088947972. 4

Question Number : 119 Question Id : 19088912020 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

During heat stress buffalo shows silent heat; most important reason is

- (1) More inhibin
- (2) Less synthesis of estrogen because of poor aromatase activity
- (3) Less FSH
- (4) Less GnRH

Options :

19088947973. 1

19088947974. 2

19088947975. 3

19088947976. 4

Question Number : 120 Question Id : 19088912021 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Statement I : During heat stress lactating animals are most affected as heat loss in lactating animals is slow.

Statement II : Heat loss by panting is not sustainable for longer time as panting itself produces more heat.

In the light of the above statements, choose the correct 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

Options :

19088947977. 1

19088947978. 2

19088947979. 3

19088947980. 4