

National Testing Agency

Question Paper Name :	Veterinary Physiology 23rd Sep 2020 Shift 2 Set 2
Subject Name :	Veterinary Physiology
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Display Marks:	Yes
Share Answer Key With Delivery Engine :	Yes
Actual Answer Key :	Yes

Veterinary Physiology

Group Number :	1
Group Id :	71087033
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 :	71087097
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	20

Number of Questions to be attempted :	20
Section Marks :	80
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	71087097
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 7108703901 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following crops is a commercial crop in Punjab and Haryana but is a subsistence crop in Orissa?

1. Tea
2. Cotton
3. Rubber
4. Rice

Options :

- 71087015601. 1
- 71087015602. 2
- 71087015603. 3
- 71087015604. 4

Question Number : 2 Question Id : 7108703902 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following are the two most important wheat-growing zones of the country?

- A. Ganga-Satluj plains in the north-west
- B. Deltaic regions
- C. Black soil region of the Deccan
- D. Plains of north-east

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

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

Options :

- 71087015605. 1
- 71087015606. 2
- 71087015607. 3
- 71087015608. 4

Question Number : 3 Question Id : 7108703903 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Indian agriculture is typically characterized as

- 1. Land surplus, labour scarce economy
- 2. Land surplus, labour surplus economy
- 3. Land scarce, labour surplus economy
- 4. Land scarce, labour scarce economy

Options :

- 71087015609. 1

71087015610. 2

71087015611. 3

71087015612. 4

Question Number : 4 Question Id : 7108703904 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following countries is the main rival of India in tea export?

1. China
2. Japan
3. Germany
4. Sri Lanka

Options :

71087015613. 1

71087015614. 2

71087015615. 3

71087015616. 4

Question Number : 5 Question Id : 7108703905 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement A: MSP is declared by the government every year to provide incentives to the farmers for raising the production of crops.

Statement B: Buffer stock is created to distribute food grains in the deficit areas and among the poorer strata of the society at the lower price than the market price.

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

1. Both Statement A and Statement B are correct
2. Both Statement A and Statement B are incorrect
3. Statement A is correct but Statement B is incorrect
4. Statement A is incorrect but Statement B is correct

Options :

- 71087015617. 1
- 71087015618. 2
- 71087015619. 3
- 71087015620. 4

Question Number : 6 Question Id : 7108703906 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following is a global association of nations of the world to help cooperation in international law, security, economic development and social equity?

1. United Nations Organization
2. International Monetary Fund
3. World Bank
4. World Health Organization

Options :

- 71087015621. 1
- 71087015622. 2
- 71087015623. 3
- 71087015624. 4

Question Number : 7 Question Id : 7108703907 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Under the Ganga Action Plan Phase II, pollution abatement works are being taken up in how many towns?

- 1. 57
- 2. 65
- 3. 52
- 4. 69

Options :

- 71087015625. 1
- 71087015626. 2
- 71087015627. 3
- 71087015628. 4

Question Number : 8 Question Id : 7108703908 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following statements is **incorrect**?

- 1. The highest number of pigs in the world are found in India
- 2. Utter Pradesh provides largest amount of pork
- 3. Assam has the largest number of pork producing pigs
- 4. Pork constitutes about 7.6% of the total meat produced in India

Options :

71087015629. 1
71087015630. 2
71087015631. 3
71087015632. 4

Question Number : 9 Question Id : 7108703909 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which type of N-fertilizer is suitable for water-logged soils?

1. Zinc Phosphate
2. Ammonium Sulphate
3. Calcium
4. Potassium Nitrate

Options :

71087015633. 1
71087015634. 2
71087015635. 3
71087015636. 4

Question Number : 10 Question Id : 7108703910 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The famous Bailadila range of hills in the Bastar district of Chhattisgarh is famous for its

1. Bauxite deposits
2. Manganese deposits
3. Copper deposits
4. High-grade haematite deposits

Options :

71087015637. 1

71087015638. 2

71087015639. 3

71087015640. 4

Question Number : 11 Question Id : 7108703911 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

A farmer wishes to start a 100 sq. m rectangular vegetable garden. Since he has only 30m barbed wire, he fences three sides of the garden letting his house compound wall act as the fourth side fencing. What is the dimension of the garden?

1. 15 m x 6.67m
2. 20 m x 5 m
3. 30 m x 3.33 m
4. 40 m x 2.5 m

Options :

71087015641. 1

71087015642. 2

71087015643. 3

71087015644. 4

Question Number : 12 Question Id : 7108703912 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

In which one of the following industries, the consumption of natural rubber is the largest?

1. Auto tyres and tubes
2. Footwear
3. Dipped goods
4. Latex foam

Options :

71087015645. 1
71087015646. 2
71087015647. 3
71087015648. 4

Question Number : 13 Question Id : 7108703913 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following countries was the partner country of 34th Surajkund International Crafts Fair held in Haryana?

1. China
2. Nepal
3. Bhutan
4. Uzbekistan

Options :

71087015649. 1
71087015650. 2
71087015651. 3
71087015652. 4

Question Number : 14 Question Id : 7108703914 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Nobel laureate Abhijit Vinayak Banerjee was conferred the honorary Doctor of Letters (D. Litt.) by which University?

1. University of Delhi
2. University of Kolkata
3. University of Mumbai
4. University of Hyderabad

Options :

- 71087015653. 1
- 71087015654. 2
- 71087015655. 3
- 71087015656. 4

Question Number : 15 Question Id : 7108703915 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Where is the headquarters of European Union?

- 1. Geneva, Switzerland
- 2. Washington D.C., USA
- 3. New York, US
- 4. Brussels, Belgium

Options :

- 71087015657. 1
- 71087015658. 2
- 71087015659. 3
- 71087015660. 4

Question Number : 16 Question Id : 7108703916 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following would be deficient if one finds high somatic cell count in the cow's milk?

- 1. Butterfat
- 2. Whey protein
- 3. Casein
- 4. Trace minerals

Options :

- 71087015661. 1
- 71087015662. 2
- 71087015663. 3
- 71087015664. 4

Question Number : 17 Question Id : 7108703917 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Who was the first administrator-statesman to attempt planning as a means for economic development?

- 1. C. Rajagopalachari
- 2. V. T. Krishnamachari
- 3. M. Viswesvarayya
- 4. Sir C. P. Ramaswami Aiyar

Options :

- 71087015665. 1
- 71087015666. 2
- 71087015667. 3
- 71087015668. 4

Question Number : 18 Question Id : 7108703918 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Amazon rainforest span over nine countries. In August 2019, in which country did a deadly fire broke out in the Amazon forest?

- 1. Brazil
- 2. Venezuela
- 3. Colombia
- 4. Argentina

Options :

- 71087015669. 1
- 71087015670. 2
- 71087015671. 3
- 71087015672. 4

Question Number : 19 Question Id : 7108703919 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Economic liberalization in India started with

- 1. Sustainable changes in industrial licensing policy
- 2. The convertibility of the Indian Rupee
- 3. Significant reduction of tax rates
- 4. Changes in procedural formalities for FDI

Options :

- 71087015673. 1
- 71087015674. 2
- 71087015675. 3
- 71087015676. 4

Question Number : 20 Question Id : 7108703920 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The term 'Delimitation' which was in news recently is associated with which process?

- 1. Fixing the limit of Income tax
- 2. Fixing limits of Affordable housing
- 3. Fixing limits of Territorial constituencies
- 4. Fixing limits of Chairpersons salary

Options :

- 71087015677. 1

71087015678. 2

71087015679. 3

71087015680. 4

Part B Core Veterinary and Animal Sciences IV

Section Id :	71087098
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	71087098
Question Shuffling Allowed :	Yes

Question Number : 21 Question Id : 7108703921 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Renin, secreted from kidney physiologically acts as

1. An enzyme
2. A hormone
3. A neurotransmitter
4. A cytokine

Options :

71087015681. 1

71087015682. 2

71087015683. 3

71087015684. 4

Question Number : 22 Question Id : 7108703922 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Most powerful phagocytic cell of blood is

1. Neutrophil
2. Eosinophil
3. Basophil
4. Macrophage

Options :

71087015685. 1

71087015686. 2

71087015687. 3

71087015688. 4

Question Number : 23 Question Id : 7108703923 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The primary energy substrate for mammary metabolism in ruminants is

1. Propionate
2. Butyrate
3. Acetate
4. Glucose

Options :

71087015689. 1

71087015690. 2

71087015691. 3

71087015692. 4

Question Number : 24 Question Id : 7108703924 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following is **NOT** a part of the growth process?

1. Cell multiplication
2. Cell enlargement
3. Incorporation of protoplasm
4. Cancerous growth

Options :

- 71087015693. 1
- 71087015694. 2
- 71087015695. 3
- 71087015696. 4

Question Number : 25 Question Id : 7108703925 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The stimulus for gastric phase of secretion is the presence of food, in the

1. Mouth
2. Oesophagus
3. Stomach
4. Duodenum

Options :

- 71087015697. 1
- 71087015698. 2
- 71087015699. 3
- 71087015700. 4

Question Number : 26 Question Id : 7108703926 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Zone of comfort in majority of homeotherms is

1. 21-26°C
2. 15-20°C
3. 30-40°C
4. 15-25°C

Options :

71087015701. 1
71087015702. 2
71087015703. 3
71087015704. 4

Question Number : 27 Question Id : 7108703927 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The amount of air that can be inspired maximally after normal expiration is

1. Vital capacity
2. Tidal volume
3. Inspiratory capacity
4. Expiratory capacity

Options :

71087015705. 1
71087015706. 2
71087015707. 3
71087015708. 4

Question Number : 28 Question Id : 7108703928 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Sensory and motor neurons synapsing in the grey column of spinal cord would essentially constitute

1. Monosynaptic reflex arc
2. Sympathetic motor outflow
3. Parasympathetic motor outflow
4. Sensory perception pathway

Options :

- 71087015709. 1
- 71087015710. 2
- 71087015711. 3
- 71087015712. 4

Question Number : 29 Question Id : 7108703929 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Lactating animals have longer period of anoestrus due to

1. High LH and FSH
2. Low LH and FSH
3. High PRL
4. Low PRL

Options :

- 71087015713. 1
- 71087015714. 2
- 71087015715. 3
- 71087015716. 4

Question Number : 30 Question Id : 7108703930 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Zone of Adrenal associated with aldosterone secretion is

1. Zona fasciculata
2. Zona reticularis
3. Zona glomerulosa
4. Medulla

Options :

71087015717. 1
71087015718. 2
71087015719. 3
71087015720. 4

Question Number : 31 Question Id : 7108703931 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Primary source of allantoic fluid is

1. Maternal circulation
2. Fetal respiratory tract
3. Fetal urine
4. Secretions of allantoic membrane

Options :

71087015721. 1
71087015722. 2
71087015723. 3
71087015724. 4

Question Number : 32 Question Id : 7108703932 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Bundle of His is also called

1. SA bundle
2. AV bundle
3. Atrial bundle
4. Inter nodal bundle

Options :

71087015725. 1
71087015726. 2
71087015727. 3
71087015728. 4

Question Number : 33 Question Id : 7108703933 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Activity induced muscle injury is due to

1. Muscle fatigue
2. Myoglobin release
3. Increase creatine kinase and lysosomal enzymes
4. Increase lactate and Hydrogen ion cone

Options :

71087015729. 1
71087015730. 2
71087015731. 3
71087015732. 4

Question Number : 34 Question Id : 7108703934 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Saltatory conduction is seen in

1. Schwann cells
2. Glial cells
3. Non-myelinated nerve fiber
4. Myelinated nerve fiber

Options :

- 71087015733. 1
- 71087015734. 2
- 71087015735. 3
- 71087015736. 4

Question Number : 35 Question Id : 7108703935 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Ventricular depolarization in normal ECG is depicted as

- A. QRS complex
- B. T wave
- C. P Wave

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

1. C, A, B
2. A, B, C
3. B, A, C
4. C, B, A

Options :

- 71087015737. 1
- 71087015738. 2
- 71087015739. 3

71087015740. 4

Question Number : 36 Question Id : 7108703936 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The smooth endoplasmic reticulum is the site of synthesis of

1. Ribosomes
2. Proteins
3. Lipids
4. Glycoproteins

Options :

71087015741. 1
71087015742. 2
71087015743. 3
71087015744. 4

Question Number : 37 Question Id : 7108703937 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Lysosomes are a bundle of

1. Hydrolases
2. Oxidases
3. Catalases
4. Protease

Options :

71087015745. 1
71087015746. 2
71087015747. 3
71087015748. 4

Question Number : 38 Question Id : 7108703938 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The "energy currency" of the cell is

1. Pyruvic acid
2. Acetyl CoA
3. NADP
4. ATP

Options :

71087015749. 1
71087015750. 2
71087015751. 3
71087015752. 4

Question Number : 39 Question Id : 7108703939 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Diffusion of water through skin and loss through evaporation is termed as

1. Sweating
2. Sensible water loss
3. Insensible water loss
4. Panting

Options :

71087015753. 1
71087015754. 2
71087015755. 3
71087015756. 4

Question Number : 40 Question Id : 7108703940 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Isometric contraction of muscle denotes

1. Muscle extension
2. Muscle flexion
3. No change in length of sarcomere
4. No change in tension on myofilaments

Options :

- 71087015757. 1
- 71087015758. 2
- 71087015759. 3
- 71087015760. 4

Question Number : 41 Question Id : 7108703941 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

An enzyme speeds up the reaction by

1. Changing ΔG for the reaction
2. Converting endergonic reaction into exergonic one
3. Reducing its E_A
4. Increasing its activation energy

Options :

- 71087015761. 1
- 71087015762. 2
- 71087015763. 3
- 71087015764. 4

Question Number : 42 Question Id : 7108703942 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Halting of metabolic pathway by the inhibitory binding of its end product to an enzyme is called

1. Enzyme activation
2. Allosteric activation
3. Co-operativity
4. Feedback inhibition

Options :

- 71087015765. 1
- 71087015766. 2
- 71087015767. 3
- 71087015768. 4

Question Number : 43 Question Id : 7108703943 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Longest duration phase of the 'interphase' in cell cycle is

1. S-phase
2. G₁-phase
3. G₂-phase
4. M-phase

Options :

- 71087015769. 1
- 71087015770. 2
- 71087015771. 3
- 71087015772. 4

Question Number : 44 Question Id : 7108703944 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Prokaryotic cells generally, undergo doubling in approximately

1. 10 minutes
2. 24 hours
3. 20 minutes to 1 hour
4. 5 to 6 hours

Options :

- 71087015773. 1
- 71087015774. 2
- 71087015775. 3
- 71087015776. 4

Question Number : 45 Question Id : 7108703945 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Plants surviving in cooler regions are expected to have more of which one of the following types of fatty acids in their membranes?

1. Phospholipids
2. Cholesterol
3. Saturated fatty acids
4. Unsaturated fatty acids

Options :

- 71087015777. 1
- 71087015778. 2
- 71087015779. 3
- 71087015780. 4

Question Number : 46 Question Id : 7108703946 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

2-oxy-4-aminopyrimidine is commonly called

1. Thymine
2. Uridine
3. Cytosine
4. Thymidine

Options :

71087015781. 1
71087015782. 2
71087015783. 3
71087015784. 4

Question Number : 47 Question Id : 7108703947 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

During translation, a stretch of short six ribonucleotide sequence preceding the initial AUG start codon of mRNA is comprised of

1. ACCAGG
2. Purine bases only
3. Pyrimidine bases only
4. TATA box

Options :

71087015785. 1
71087015786. 2
71087015787. 3
71087015788. 4

Question Number : 48 Question Id : 7108703948 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Semiconservative mode of replication was proposed by which of the following scientists?

1. Maxam and Gilbert
2. Messelson and Stahl
3. Kohler and Milstein
4. Beadle and Tatum

Options :

- 71087015789. 1
- 71087015790. 2
- 71087015791. 3
- 71087015792. 4

Question Number : 49 Question Id : 7108703949 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Eukaryotic DNA polymerase 'alpha' differs from 'delta' and 'epsilon' forms by having

1. High processivity
2. Low processivity
3. 3' to 5' exonuclease activity
4. Proof-reading activity

Options :

- 71087015793. 1
- 71087015794. 2
- 71087015795. 3
- 71087015796. 4

Question Number : 50 Question Id : 7108703950 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Epinephrine upon binding to a G protein-coupled receptor outside the cell, activates the plasma membrane embedded enzyme called

1. Cyclic AMP
2. Protein kinase A
3. Adenylate cyclase
4. Inositol triphosphate

Options :

- 71087015797. 1
- 71087015798. 2
- 71087015799. 3
- 71087015800. 4

Question Number : 51 Question Id : 7108703951 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A disorder in which an immune system response to antigen is absent or defective is specifically called as

1. Autoimmune disorder
2. Immunodeficiency
3. Anaphylaxis
4. Immunocompromised

Options :

- 71087015801. 1
- 71087015802. 2
- 71087015803. 3
- 71087015804. 4

Question Number : 52 Question Id : 7108703952 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Epinephrine secreted by the adrenal glands is basically a

1. Corticosteroid
2. Second messenger
3. Paracrine hormone
4. Water soluble hormone

Options :

71087015805. 1
71087015806. 2
71087015807. 3
71087015808. 4

Question Number : 53 Question Id : 7108703953 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Southern blots carried out with DNA from different animal species is commonly called

1. Dot blot
2. Phytoblot
3. Zooblot
4. Diversity blot

Options :

71087015809. 1
71087015810. 2
71087015811. 3
71087015812. 4

Question Number : 54 Question Id : 7108703954 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

'FISH' is a nucleic acid analyzing technique which generally involves

1. Southern blot and hybridization
2. RNA hybridization only
3. Fluorescent primer based amplification
4. Hybridizing probe directly to chromosomes

Options :

- 71087015813. 1
- 71087015814. 2
- 71087015815. 3
- 71087015816. 4

Question Number : 55 Question Id : 7108703955 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Scaling-up of suspension cultures primarily involves increase in one of the following

1. Volume of culture medium
2. Density of medium
3. Volume of the culture vessel
4. Aeration of the culture

Options :

- 71087015817. 1
- 71087015818. 2
- 71087015819. 3
- 71087015820. 4

Question Number : 56 Question Id : 7108703956 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Cells that stain with trypan blue dye are

1. Viable cells
2. Dead cells
3. Both viable and dead cells
4. Dividing phase cells

Options :

71087015821. 1

71087015822. 2

71087015823. 3

71087015824. 4

Question Number : 57 Question Id : 7108703957 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Antigen primed partner cells for hybridoma production are generally derived from which one of the following tissues of mice?

1. Lymphoid organs
2. Spleen
3. Peripheral blood
4. Liver

Options :

71087015825. 1

71087015826. 2

71087015827. 3

71087015828. 4

Question Number : 58 Question Id : 7108703958 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

L-glutamine is an important constituent of cell culture medium as

1. It acts as an amine donor
2. It maintains pH
3. It gives energy to the cells
4. It acts as amino acid supplement

Options :

- 71087015829. 1
- 71087015830. 2
- 71087015831. 3
- 71087015832. 4

Question Number : 59 Question Id : 7108703959 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

First buffalo calf produced using *in vitro* fertilization technology in India was named as

1. Garima
2. Holi
3. Swarna
4. Pratham

Options :

- 71087015833. 1
- 71087015834. 2
- 71087015835. 3
- 71087015836. 4

Question Number : 60 Question Id : 7108703960 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following agents is used *in vitro* for activation of parthenogenetic embryos, in order to induce cleavage?

1. Hyaluronidase
2. Sodium pyruvate
3. Calcimycin
4. LIF

Options :

71087015837. 1
71087015838. 2
71087015839. 3
71087015840. 4

Question Number : 61 Question Id : 7108703961 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Most important non-volatile acid within body is Sulphuric acid

Statement II: Sulphuric acid is formed from Sulphur containing amino acids

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

Options :

71087015841. 1
71087015842. 2

71087015843. 3

71087015844. 4

Question Number : 62 Question Id : 7108703962 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Prostaglandin $F_{2\alpha}$ and Prostaglandin E_2 are derived from Arachidonic acid

Statement II: $PGF_{2\alpha}$ has a ketone group while PGE_2 has hydroxyl group on Carbon-9 position

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

Options :

71087015845. 1

71087015846. 2

71087015847. 3

71087015848. 4

Question Number : 63 Question Id : 7108703963 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Replacement of amino acid valine by glutamic acid in both keta chains of hemoglobin results in

1. Formation of myoglobin
2. Sickle cell anemia
3. Break-up of heam molecule
4. Break-up of globin chain

Options :

- 71087015849. 1
- 71087015850. 2
- 71087015851. 3
- 71087015852. 4

Question Number : 64 Question Id : 7108703964 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The ratio of phosphate used in ATP Synthesis per one half mole of O_2 used during oxidation of glucose to $6 CO_2$ and $6 H_2O$ is

1. 2:1
2. 3:1
3. 4:1
4. 6:1

Options :

- 71087015853. 1
- 71087015854. 2
- 71087015855. 3
- 71087015856. 4

Question Number : 65 Question Id : 7108703965 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

RNA Polymerase must have which of the following properties?

- A. Recognize promoter sequence
- B. Cause unwinding of two turns of DNA helix
- C. Break phosphate radicals from RNA nucleotides
- D. Interact with chain terminating sequence

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

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

Options :

- 71087015857. 1
- 71087015858. 2
- 71087015859. 3
- 71087015860. 4

Question Number : 66 Question Id : 7108703966 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The functional group Vitamin A can be

- A. Retinol
- B. Retinal
- C. Retinoic acid
- D. Retinyl ester

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

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

Options :

- 71087015861. 1
- 71087015862. 2
- 71087015863. 3
- 71087015864. 4

Question Number : 67 Question Id : 7108703967 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Iron on absorption from small intestine combines with apo transferrin in blood

Statement II: Iron is transported as transferrin in blood

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

Options :

71087015865. 1

71087015866. 2

71087015867. 3

71087015868. 4

Question Number : 68 Question Id : 7108703968 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Main benefit of ELISA over RIA is that it is cost-effective, does not use radio-isotopes and can be automated

Statement II: ELISA is more accurate than RIA

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

Options :

71087015869. 1

71087015870. 2

71087015871. 3

71087015872. 4

Question Number : 69 Question Id : 7108703969 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

List I	List II
A. C_{3b}	I. Activates mast cells and basophils
B. C_{5a}	II. Lysis of cells
C. C_{3a}	III. Chemotaxis of WBC's
D. C_{5b6789}	IV. Opsonization

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

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

Options :

71087015873. 1
71087015874. 2
71087015875. 3
71087015876. 4

Question Number : 70 Question Id : 7108703970 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which among the following is both glucogenic and ketogenic

1. Leucine
2. Iso leucine
3. Lysine
4. Histidine

Options :

71087015877. 1

71087015878. 2
71087015879. 3
71087015880. 4

Part C Veterinary Physiology

Section Id :	71087099
Section Number :	3
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	71087099
Question Shuffling Allowed :	Yes

Question Number : 71 Question Id : 7108703971 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which out of the following is most appropriate unit for expressing electrolyte concentration in body fluids?

1. Molar
2. Percent
3. Osmolar
4. Milliequivalent

Options :

71087015881. 1
71087015882. 2
71087015883. 3
71087015884. 4

Question Number : 72 Question Id : 7108703972 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following fluid compartments has the highest magnitude?

1. Plasma volume
2. Extracellular volume
3. Interstitial volume
4. Intracellular volume

Options :

71087015885. 1
71087015886. 2
71087015887. 3
71087015888. 4

Question Number : 73 Question Id : 7108703973 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of following buffer system is most active in blood?

1. Hemoglobin buffer
2. Bicarbonate buffer
3. Phosphate buffer
4. Plasma protein buffer

Options :

71087015889. 1

71087015890. 2

71087015891. 3

71087015892. 4

Question Number : 74 Question Id : 7108703974 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following organelles is a scavenger of mammalian cell?

1. Mitochondria
2. Nucleus
3. Lysosomes
4. Golgi bodies

Options :

71087015893. 1

71087015894. 2

71087015895. 3

71087015896. 4

Question Number : 75 Question Id : 7108703975 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The ventilation-perfusion ratio is

1. 0.8
2. 1.8
3. 2.8
4. 0.08

Options :

71087015897. 1

71087015898. 2

71087015899. 3

71087015900. 4

Question Number : 76 Question Id : 7108703976 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

MPS System is related with

1. Erythropoeitin
2. Leucopoiesis
3. Hemolysis
4. Immune Functions

Options :

71087015901. 1
71087015902. 2
71087015903. 3
71087015904. 4

Question Number : 77 Question Id : 7108703977 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following is a serum protease inhibitor involved in hemostasis

1. Prothrombin
2. Plasminogen
3. Fibrinogen
4. Antithrombin

Options :

71087015905. 1
71087015906. 2
71087015907. 3
71087015908. 4

Question Number : 78 Question Id : 7108703978 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Cardiac index of an animal is calculated based on

1. Volume of blood ejected per unit time
2. Volume of blood ejected per kg of body weight
3. Volume of blood ejected per unit surface area
4. Heart rate per minute

Options :

71087015909. 1

71087015910. 2

71087015911. 3

71087015912. 4

Question Number : 79 Question Id : 7108703979 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The GFR per hour is

1. 125 ml
2. 8300 ml
3. 4000 ml
4. 7300 ml

Options :

71087015913. 1

71087015914. 2

71087015915. 3

71087015916. 4

Question Number : 80 Question Id : 7108703980 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

The action of ADH on DCT is through

1. G-cell
2. I-Cell
3. Principal Cell
4. Intercalated Cell

Options :

71087015917. 1
71087015918. 2
71087015919. 3
71087015920. 4

Question Number : 81 Question Id : 7108703981 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

The pacemaker for respiration is present in

1. Ventral respiratory group of neurons
2. Apneustic center
3. Dorsal respiratory group of neurons
4. Hypothalamus

Options :

71087015921. 1
71087015922. 2
71087015923. 3
71087015924. 4

Question Number : 82 Question Id : 7108703982 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

The anticoagulant uses for blood glucose estimation is

1. Heparin
2. EDTA
3. Sodium flouride
4. Thymol

Options :

71087015925. 1
71087015926. 2
71087015927. 3
71087015928. 4

Question Number : 83 Question Id : 7108703983 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Henry's law pertaining to gases relates

1. Pressure volume relationship
2. Temperature pressure relationship
3. Solubility of gases
4. Concept of partial pressure

Options :

71087015929. 1
71087015930. 2
71087015931. 3
71087015932. 4

Question Number : 84 Question Id : 7108703984 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The most potent stimulator for central chemoreceptor is

1. Hydrogen ion
2. CO₂
3. Oxygen
4. Nitrogen

Options :

- 71087015933. 1
- 71087015934. 2
- 71087015935. 3
- 71087015936. 4

Question Number : 85 Question Id : 7108703985 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Oxygen tension of arterial blood is

1. 20 volume percent
2. 100mm Hg
3. 40 mmHg
4. 40 volume percent

Options :

- 71087015937. 1
- 71087015938. 2
- 71087015939. 3
- 71087015940. 4

Question Number : 86 Question Id : 7108703986 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The pancreatic juice becomes rich in bicarbonate ion due to

1. Secretin
2. CCK
3. GIP
4. Gastrin

Options :

71087015941. 1
71087015942. 2
71087015943. 3
71087015944. 4

Question Number : 87 Question Id : 7108703987 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The action of growth hormone is through

1. Inhibin
2. Somatostatin
3. Somatotropin
4. Somatomedin

Options :

71087015945. 1
71087015946. 2
71087015947. 3
71087015948. 4

Question Number : 88 Question Id : 7108703988 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The vomition center is located in

1. Hypothalamus
2. Thalamus
3. Medulla Oblongata
4. Cerebral Cortex

Options :

71087015949. 1
71087015950. 2
71087015951. 3
71087015952. 4

Question Number : 89 Question Id : 7108703989 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which out of the following is a property of the gastro intestinal smooth muscles

1. End plate potential
2. Slow wave potential
3. Pre-potential
4. Action potential

Options :

71087015953. 1
71087015954. 2
71087015955. 3
71087015956. 4

Question Number : 90 Question Id : 7108703990 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The most potent stimulator for esophageal groove closure in adult animal is

1. Calcium Chloride
2. Copper Sulphate
3. Sodium Chloride
4. Magnesium Sulphate

Options :

71087015957. 1
71087015958. 2
71087015959. 3
71087015960. 4

Question Number : 91 Question Id : 7108703991 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

For synthesis of one ml of milk, the blood required is

1. 400-500 ml
2. 4000-5000 ml
3. 1000 ml
4. 10 ml

Options :

71087015961. 1
71087015962. 2
71087015963. 3
71087015964. 4

Question Number : 92 Question Id : 7108703992 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Due to Brownian movement the action potential generated is known as

1. Inhibitory post synaptic potential
2. Excitatory post synaptic potential
3. Both inhibitory and excitatory potential
4. Miniature end plate potential

Options :

- 71087015965. 1
- 71087015966. 2
- 71087015967. 3
- 71087015968. 4

Question Number : 93 Question Id : 7108703993 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which out of the following is **not** a component of actin myofilament

1. Troponin
2. Tropomyosin
3. Calsequestrin
4. F-Actin

Options :

- 71087015969. 1
- 71087015970. 2
- 71087015971. 3
- 71087015972. 4

Question Number : 94 Question Id : 7108703994 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following is considered as inhibitor of actin myosin interaction in resting skeleton muscle?

1. Heavy meromyosin
2. Adenosine triphosphate
3. Calcium
4. Acetylcholine

Options :

71087015973. 1
71087015974. 2
71087015975. 3
71087015976. 4

Question Number : 95 Question Id : 7108703995 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Oxytocin receptor formation in uterus is due to which hormone

1. Progesterone
2. FSH
3. Estrogen
4. LH

Options :

71087015977. 1
71087015978. 2
71087015979. 3
71087015980. 4

Question Number : 96 Question Id : 7108703996 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Atropine is antagonist of

1. Muscarinic receptors
2. Nicotinic receptors
3. Alpha adrenergic
4. Beta Adrenergic

Options :

- 71087015981. 1
- 71087015982. 2
- 71087015983. 3
- 71087015984. 4

Question Number : 97 Question Id : 7108703997 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

For induction of lactation in cows, the hormones used are

1. Estrogen and cortisol
2. Progesterone and oxytocin
3. Estrogen and progesterone
4. GH and Oxytocin

Options :

- 71087015985. 1
- 71087015986. 2
- 71087015987. 3
- 71087015988. 4

Question Number : 98 Question Id : 7108703998 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Hypothalamus is associated with control of

1. Autonomic functions
2. Visual sensation
3. Sensory perception
4. Equilibrium maintenance

Options :

- 71087015989. 1
- 71087015990. 2
- 71087015991. 3
- 71087015992. 4

Question Number : 99 Question Id : 7108703999 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The galactopoietic hormone in cows is

1. Prolactin
2. Growth Hormone
3. Oxytocin
4. Thyroxin

Options :

- 71087015993. 1
- 71087015994. 2
- 71087015995. 3
- 71087015996. 4

Question Number : 100 Question Id : 7108704000 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The half-life of prolactin hormone is

1. 20 minutes
2. 5 minutes
3. 20 days
4. 100 minutes

Options :

71087015997. 1
71087015998. 2
71087015999. 3
71087016000. 4

Question Number : 101 Question Id : 7108704001 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The solubility coefficient for nitrogen is

1. 1.00
2. 0.57
3. 20.0
4. 1.20

Options :

71087016001. 1
71087016002. 2
71087016003. 3
71087016004. 4

Question Number : 102 Question Id : 7108704002 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The CCK contains

1. 14 amino acids
2. 33 amino acids
3. 03 amino acids
4. 27 amino acids

Options :

71087016005. 1
71087016006. 2
71087016007. 3
71087016008. 4

Question Number : 103 Question Id : 7108704003 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Precise site of the acrosome reaction is

1. Vagina
2. Epididymis
3. Oviduct
4. Vas deferense

Options :

71087016009. 1
71087016010. 2
71087016011. 3
71087016012. 4

Question Number : 104 Question Id : 7108704004 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The rate limiting enzyme for melatonin synthesis is

1. N-acetyl transferase
2. Hydroxy-Indole-O-Methyl Transferase
3. Sodium Potassium ATPase
4. N-Methyl transferase

Options :

- 71087016013. 1
- 71087016014. 2
- 71087016015. 3
- 71087016016. 4

Question Number : 105 Question Id : 7108704005 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Hormone synthesized in the endometrial cups are

1. PMSG
2. HCG
3. FSH
4. Estrogen

Options :

- 71087016017. 1
- 71087016018. 2
- 71087016019. 3
- 71087016020. 4

Question Number : 106 Question Id : 7108704006 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The total surface area of alveoli in lungs is closest to

1. 16 m²
2. 160 m²
3. 160 cm²
4. 90 m²

Options :

71087016021. 1
71087016022. 2
71087016023. 3
71087016024. 4

Question Number : 107 Question Id : 7108704007 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Rate of perspiration is directly influenced by

- A. Wind velocity only
- B. Ambient temperature only
- C. Relative humidity only

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

1. B Only
2. B and C Only
3. A and C Only
4. A, B and C Only

Options :

71087016025. 1

71087016026. 2

71087016027. 3

71087016028. 4

Question Number : 108 Question Id : 7108704008 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the activity is regulated by hypothalamus?

A. Heat Loss

B. Heat gain

C. Thirst

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

1. A and B Only

2. B and C Only

3. A and C Only

4. A, B and C Only

Options :

71087016029. 1

71087016030. 2

71087016031. 3

71087016032. 4

Question Number : 109 Question Id : 7108704009 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The instrument used for determination of duration of light is

1. Anemometer
2. Campbell sunshine recorder
3. Lux meter
4. Podometer

Options :

- 71087016033. 1
- 71087016034. 2
- 71087016035. 3
- 71087016036. 4

Question Number : 110 Question Id : 7108704010 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The shape of myoglobin dissociation curve is

1. Sigmoid
2. Hyperbola
3. Linear
4. Circular

Options :

- 71087016037. 1
- 71087016038. 2
- 71087016039. 3
- 71087016040. 4

Question Number : 111 Question Id : 7108704011 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The milk protein that acts as an enzyme for lactose synthesis is

1. α – casein
2. Beta- Globulin
3. Alpha –Lactalbumin
4. Kappa Casein

Options :

- 71087016041. 1
- 71087016042. 2
- 71087016043. 3
- 71087016044. 4

Question Number : 112 Question Id : 7108704012 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The epididymal migration time in bull is

1. 3-7 days
2. 8-12 days
3. 1-2 days
4. 14-18 days

Options :

- 71087016045. 1
- 71087016046. 2
- 71087016047. 3
- 71087016048. 4

Question Number : 113 Question Id : 7108704013 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The sexual behavior centre is present in

1. Cerebral cortex
2. Thalamus
3. Hypothalamus
4. Medulla Oblongata

Options :

71087016049. 1
71087016050. 2
71087016051. 3
71087016052. 4

Question Number : 114 Question Id : 7108704014 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which out of the following is likely to have lowest temperature under shade?

1. Skin
2. Rectal
3. Oral
4. Core Body

Options :

71087016053. 1
71087016054. 2
71087016055. 3
71087016056. 4

Question Number : 115 Question Id : 7108704015 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Protein packaging takes place at cellular level in

1. Rough Endoplasmic reticulum
2. Golgi Complex
3. Ribosomes
4. Smooth Endoplasmic reticulum

Options :

71087016057. 1

71087016058. 2

71087016059. 3

71087016060. 4

Question Number : 116 Question Id : 7108704016 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Assertion A: Paramino hippuric acid is an ideal exogenous marker for estimation of renal plasma flow

Reason R: At low plasma concentration, it is completely removed in the urine by active tubular secretion

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

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is **NOT** the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 71087016061. 1
- 71087016062. 2
- 71087016063. 3
- 71087016064. 4

Question Number : 117 Question Id : 7108704017 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

Assertion A: Tetanization of skeletal muscles is caused due to increasing frequency of stimulation

Reason R: Frequency of stimulation increases due to absence of or short refractory period

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

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is **NOT** the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 71087016065. 1
- 71087016066. 2
- 71087016067. 3
- 71087016068. 4

Question Number : 118 Question Id : 7108704018 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

Assertion A: Defibrinated blood serum does not clot

Reason R: Defibrinated blood serum is devoid of plasma albumin

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

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is **NOT** the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 71087016069. 1
- 71087016070. 2
- 71087016071. 3
- 71087016072. 4

Question Number : 119 Question Id : 7108704019 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

List I	List II
A. Acetic Acid	I. Glucogenic VFA
B. Propionic Acid	II. Acidifying agent
C. Butyric Acid	III. Calorigenic VFA
D. Hydrochloric Acid	IV. Ketogenic VFA

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

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

Options :

71087016073. 1

71087016074. 2

71087016075. 3

71087016076. 4

Question Number : 120 Question Id : 7108704020 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

List I	List II
A. Myocardial Cell	I. Sino-atrial node
B. Pace maker	II. Atrioventricular node
C. Aortic valve	III. Striated appearance
D. Alternate Pacemaker	IV. Semilunar valve

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

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

Options :

71087016077. 1
71087016078. 2
71087016079. 3
71087016080. 4