

National Testing Agency

Question Paper Name :	ANIMAL BIOTECHNOLOGY 23rd Sep 2020 Shift 2 Set 2
Subject Name :	ANIMAL BIOTECHNOLOGY
Creation Date :	2020-09-23 19:33:39
Duration :	120
Total Marks :	480
Display Marks:	Yes
Share Answer Key With Delivery Engine :	Yes
Actual Answer Key :	Yes

Animal Biotechnology

Group Number :	1
Group Id :	71087035
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 :	710870103
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	20

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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 :	710870103
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 7108704141 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 :

- 71087016561. 1
- 71087016562. 2
- 71087016563. 3
- 71087016564. 4

Question Number : 2 Question Id : 7108704142 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 :

- 71087016565. 1
- 71087016566. 2
- 71087016567. 3
- 71087016568. 4

Question Number : 3 Question Id : 7108704143 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 :

- 71087016569. 1

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71087016570. 2

71087016571. 3

71087016572. 4

Question Number : 4 Question Id : 7108704144 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 :

71087016573. 1

71087016574. 2

71087016575. 3

71087016576. 4

Question Number : 5 Question Id : 7108704145 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 :

- 71087016577. 1
- 71087016578. 2
- 71087016579. 3
- 71087016580. 4

Question Number : 6 Question Id : 7108704146 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

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Options :

- 71087016581. 1
- 71087016582. 2
- 71087016583. 3
- 71087016584. 4

Question Number : 7 Question Id : 7108704147 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 :

- 71087016585. 1
- 71087016586. 2
- 71087016587. 3
- 71087016588. 4

Question Number : 8 Question Id : 7108704148 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 :

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- 71087016589. 1
- 71087016590. 2
- 71087016591. 3
- 71087016592. 4

Question Number : 9 Question Id : 7108704149 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 :

- 71087016593. 1
- 71087016594. 2
- 71087016595. 3
- 71087016596. 4

Question Number : 10 Question Id : 7108704150 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 :

- 71087016597. 1

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71087016598. 2

71087016599. 3

71087016600. 4

Question Number : 11 Question Id : 7108704151 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 :

71087016601. 1

71087016602. 2

71087016603. 3

71087016604. 4

Question Number : 12 Question Id : 7108704152 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 :

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- 71087016605. 1
- 71087016606. 2
- 71087016607. 3
- 71087016608. 4

Question Number : 13 Question Id : 7108704153 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 :

- 71087016609. 1
- 71087016610. 2
- 71087016611. 3
- 71087016612. 4

Question Number : 14 Question Id : 7108704154 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

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Options :

- 71087016613. 1
- 71087016614. 2
- 71087016615. 3
- 71087016616. 4

Question Number : 15 Question Id : 7108704155 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 :

- 71087016617. 1
- 71087016618. 2
- 71087016619. 3
- 71087016620. 4

Question Number : 16 Question Id : 7108704156 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

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Options :

- 71087016621. 1
- 71087016622. 2
- 71087016623. 3
- 71087016624. 4

Question Number : 17 Question Id : 7108704157 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 :

- 71087016625. 1
- 71087016626. 2
- 71087016627. 3
- 71087016628. 4

Question Number : 18 Question Id : 7108704158 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

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Options :

- 71087016629. 1
- 71087016630. 2
- 71087016631. 3
- 71087016632. 4

Question Number : 19 Question Id : 7108704159 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 :

- 71087016633. 1
- 71087016634. 2
- 71087016635. 3
- 71087016636. 4

Question Number : 20 Question Id : 7108704160 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 :

- 71087016637. 1

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71087016638. 2

71087016639. 3

71087016640. 4

Part B Core Veterinary and Animal Sciences IV

Section Id :	710870104
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 :	710870104
Question Shuffling Allowed :	Yes

Question Number : 21 Question Id : 7108704161 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 :

71087016641. 1

71087016642. 2

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71087016643. 3

71087016644. 4

Question Number : 22 Question Id : 7108704162 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 :

71087016645. 1

71087016646. 2

71087016647. 3

71087016648. 4

Question Number : 23 Question Id : 7108704163 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 :

71087016649. 1

71087016650. 2

71087016651. 3

71087016652. 4

Question Number : 24 Question Id : 7108704164 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 :

- 71087016653. 1
- 71087016654. 2
- 71087016655. 3
- 71087016656. 4

Question Number : 25 Question Id : 7108704165 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 :

- 71087016657. 1
- 71087016658. 2
- 71087016659. 3
- 71087016660. 4

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Question Number : 26 Question Id : 7108704166 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 :

- 71087016661. 1
- 71087016662. 2
- 71087016663. 3
- 71087016664. 4

Question Number : 27 Question Id : 7108704167 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 :

- 71087016665. 1
- 71087016666. 2
- 71087016667. 3
- 71087016668. 4

Question Number : 28 Question Id : 7108704168 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

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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 :

- 71087016669. 1
- 71087016670. 2
- 71087016671. 3
- 71087016672. 4

Question Number : 29 Question Id : 7108704169 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 :

- 71087016673. 1
- 71087016674. 2
- 71087016675. 3
- 71087016676. 4

Question Number : 30 Question Id : 7108704170 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 :

71087016677. 1
71087016678. 2
71087016679. 3
71087016680. 4

Question Number : 31 Question Id : 7108704171 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 :

71087016681. 1
71087016682. 2
71087016683. 3
71087016684. 4

Question Number : 32 Question Id : 7108704172 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

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Bundle of His is also called

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

Options :

- 71087016685. 1
- 71087016686. 2
- 71087016687. 3
- 71087016688. 4

Question Number : 33 Question Id : 7108704173 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 :

- 71087016689. 1
- 71087016690. 2
- 71087016691. 3
- 71087016692. 4

Question Number : 34 Question Id : 7108704174 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

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Saltatory conduction is seen in

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

Options :

- 71087016693. 1
- 71087016694. 2
- 71087016695. 3
- 71087016696. 4

Question Number : 35 Question Id : 7108704175 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 :

- 71087016697. 1
- 71087016698. 2
- 71087016699. 3

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71087016700. 4

Question Number : 36 Question Id : 7108704176 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 :

71087016701. 1
71087016702. 2
71087016703. 3
71087016704. 4

Question Number : 37 Question Id : 7108704177 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 :

71087016705. 1
71087016706. 2
71087016707. 3
71087016708. 4

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Question Number : 38 Question Id : 7108704178 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 :

71087016709. 1
71087016710. 2
71087016711. 3
71087016712. 4

Question Number : 39 Question Id : 7108704179 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 :

71087016713. 1
71087016714. 2
71087016715. 3
71087016716. 4

Question Number : 40 Question Id : 7108704180 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

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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 :

- 71087016717. 1
- 71087016718. 2
- 71087016719. 3
- 71087016720. 4

Question Number : 41 Question Id : 7108704181 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 :

- 71087016721. 1
- 71087016722. 2
- 71087016723. 3
- 71087016724. 4

Question Number : 42 Question Id : 7108704182 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 :

- 71087016725. 1
- 71087016726. 2
- 71087016727. 3
- 71087016728. 4

Question Number : 43 Question Id : 7108704183 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 :

- 71087016729. 1
- 71087016730. 2
- 71087016731. 3
- 71087016732. 4

Question Number : 44 Question Id : 7108704184 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 :

- 71087016733. 1
- 71087016734. 2
- 71087016735. 3
- 71087016736. 4

Question Number : 45 Question Id : 7108704185 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 :

- 71087016737. 1
- 71087016738. 2
- 71087016739. 3
- 71087016740. 4

Question Number : 46 Question Id : 7108704186 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 :

71087016741. 1
71087016742. 2
71087016743. 3
71087016744. 4

Question Number : 47 Question Id : 7108704187 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 :

71087016745. 1
71087016746. 2
71087016747. 3
71087016748. 4

Question Number : 48 Question Id : 7108704188 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

Semiconsrvative 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 :

- 71087016749. 1
- 71087016750. 2
- 71087016751. 3
- 71087016752. 4

Question Number : 49 Question Id : 7108704189 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 :

- 71087016753. 1
- 71087016754. 2
- 71087016755. 3
- 71087016756. 4

Question Number : 50 Question Id : 7108704190 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 :

- 71087016757. 1
- 71087016758. 2
- 71087016759. 3
- 71087016760. 4

Question Number : 51 Question Id : 7108704191 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 :

- 71087016761. 1
- 71087016762. 2
- 71087016763. 3
- 71087016764. 4

Question Number : 52 Question Id : 7108704192 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

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Epinephrine secreted by the adrenal glands is basically a

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

Options :

- 71087016765. 1
- 71087016766. 2
- 71087016767. 3
- 71087016768. 4

Question Number : 53 Question Id : 7108704193 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 :

- 71087016769. 1
- 71087016770. 2
- 71087016771. 3
- 71087016772. 4

Question Number : 54 Question Id : 7108704194 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

9/24/2020

'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 :

- 71087016773. 1
- 71087016774. 2
- 71087016775. 3
- 71087016776. 4

Question Number : 55 Question Id : 7108704195 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 :

- 71087016777. 1
- 71087016778. 2
- 71087016779. 3
- 71087016780. 4

Question Number : 56 Question Id : 7108704196 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

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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 :

71087016781. 1

71087016782. 2

71087016783. 3

71087016784. 4

Question Number : 57 Question Id : 7108704197 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 :

71087016785. 1

71087016786. 2

71087016787. 3

71087016788. 4

Question Number : 58 Question Id : 7108704198 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 :

- 71087016789. 1
- 71087016790. 2
- 71087016791. 3
- 71087016792. 4

Question Number : 59 Question Id : 7108704199 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 :

- 71087016793. 1
- 71087016794. 2
- 71087016795. 3
- 71087016796. 4

Question Number : 60 Question Id : 7108704200 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

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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 :

71087016797. 1
71087016798. 2
71087016799. 3
71087016800. 4

Question Number : 61 Question Id : 7108704201 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 :

71087016801. 1
71087016802. 2

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71087016803. 3

71087016804. 4

Question Number : 62 Question Id : 7108704202 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 :

71087016805. 1

71087016806. 2

71087016807. 3

71087016808. 4

Question Number : 63 Question Id : 7108704203 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

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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 :

71087016809. 1
71087016810. 2
71087016811. 3
71087016812. 4

Question Number : 64 Question Id : 7108704204 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 :

71087016813. 1
71087016814. 2
71087016815. 3
71087016816. 4

Question Number : 65 Question Id : 7108704205 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 :

- 71087016817. 1
- 71087016818. 2
- 71087016819. 3
- 71087016820. 4

Question Number : 66 Question Id : 7108704206 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

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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 :

- 71087016821. 1
- 71087016822. 2
- 71087016823. 3
- 71087016824. 4

Question Number : 67 Question Id : 7108704207 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

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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 :

71087016825. 1

71087016826. 2

71087016827. 3

71087016828. 4

Question Number : 68 Question Id : 7108704208 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

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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 :

71087016829. 1

71087016830. 2

71087016831. 3

71087016832. 4

Question Number : 69 Question Id : 7108704209 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 most cells and basophils
B. C_{5a}	II. Lysis of cells
C. C_{3a}	III. Chantosis 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 :

71087016833. 1
 71087016834. 2
 71087016835. 3
 71087016836. 4

Question Number : 70 Question Id : 7108704210 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 :

71087016837. 1

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71087016838. 2

71087016839. 3

71087016840. 4

Part C Animal Biotechnology

Section Id :	710870105
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 :	710870105
Question Shuffling Allowed :	Yes

Question Number : 71 Question Id : 7108704211 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 of the DNA in an eukaryotic cell is

1. Right handed and B-form
2. Left handed and Z-form
3. Right and left handed in equimolar concentrations
4. Left handed and A-form

Options :

71087016841. 1

71087016842. 2

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71087016843. 3

71087016844. 4

Question Number : 72 Question Id : 7108704212 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 important reserve polysaccharide in living organisms is

1. Starch only
2. Starch and glycogen
3. Glycogen only
4. Starch and cellulose

Options :

71087016845. 1

71087016846. 2

71087016847. 3

71087016848. 4

Question Number : 73 Question Id : 7108704213 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 principle of spontaneous or self-assembly is observed in

1. Proteins
2. Phospholipids and ribosomes
3. Nucleic acids
4. Compound lipids

Options :

71087016849. 1

71087016850. 2

71087016851. 3

71087016852. 4

Question Number : 74 Question Id : 7108704214 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

Internal pH of most living cells is close to

1. 7
2. 10
3. Blood pH of the respective organism
4. 6

Options :

- 71087016853. 1
- 71087016854. 2
- 71087016855. 3
- 71087016856. 4

Question Number : 75 Question Id : 7108704215 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

Number of times a double helix of DNA crosses over itself is precisely denoted by

1. Supercoil
2. Twist
3. Writhe
4. Superhelix

Options :

- 71087016857. 1
- 71087016858. 2
- 71087016859. 3
- 71087016860. 4

Question Number : 76 Question Id : 7108704216 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

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

Correct Marks : 4 Wrong Marks : 1

Generally the ratio of the sizes of mycoplasmas, bacteria and eukaryotic cells, respectively, is

1. 1:10:1000
2. 1:5:250
3. 5:10:60
4. 1:10:100

Options :

- 71087016861. 1
- 71087016862. 2
- 71087016863. 3
- 71087016864. 4

Question Number : 77 Question Id : 7108704217 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 somatic cells just prior to cell division contain a chromosomal complement equivalent to

1. 'n'
2. '2n'
3. '3n'
4. '4n'

Options :

- 71087016865. 1
- 71087016866. 2
- 71087016867. 3
- 71087016868. 4

Question Number : 78 Question Id : 7108704218 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

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

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Correct Marks : 4 Wrong Marks : 1

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

List I	List II
A. Golgi apparatus	I. Cristae
B. Nucleolus	II. Ribosome biogenesis
C. Recombination	III. Autophagy
D. Mitochondria	IV. Corona viruses
	V. Protein packaging

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

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

Options :

- 71087016869. 1
- 71087016870. 2
- 71087016871. 3
- 71087016872. 4

Question Number : 79 Question Id : 7108704219 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

One of the important innate defense pathway that clears microbes by delivering them to lysosomes is called

1. Phagocytosis
2. Cell mediated lysis
3. Antibody mediated cell cytotoxicity
4. Phagolysosomal trafficking

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Options :

- 71087016873. 1
- 71087016874. 2
- 71087016875. 3
- 71087016876. 4

Question Number : 80 Question Id : 7108704220 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

Embryonic stem cells are generally derived from

- 1. Trophectoderm cells
- 2. Ectodermal cells
- 3. Inner cell mass
- 4. Outer cumulus cells

Options :

- 71087016877. 1
- 71087016878. 2
- 71087016879. 3
- 71087016880. 4

Question Number : 81 Question Id : 7108704221 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

Pathogenic gram-negative bacteria typically cause disease by releasing which one of the following products?

- 1. Plasmids
- 2. Shigatoxins
- 3. Endonuclease
- 4. Endotoxins

Options :

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- 71087016881. 1
- 71087016882. 2
- 71087016883. 3
- 71087016884. 4

Question Number : 82 Question Id : 7108704222 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

Sickle cell anaemia is an example of

- 1. Silent mutation
- 2. Frameshift mutation
- 3. Point mutation
- 4. Missense mutation

Options :

- 71087016885. 1
- 71087016886. 2
- 71087016887. 3
- 71087016888. 4

Question Number : 83 Question Id : 7108704223 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 approximate size of circular human mitochondrial DNA molecule is

- 1. 16.5 kbp
- 2. 8.9 kbp
- 3. 21.3 kbp
- 4. 10.8 kbp

Options :

- 71087016889. 1
- 71087016890. 2

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71087016891. 3

71087016892. 4

Question Number : 84 Question Id : 7108704224 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. Transposons	I. Sanger's sequencing
B. Ribosomes	II. Barbara McClintock
C. Chain termination	III. Protein synthesis

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

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

Options :

71087016893. 1

71087016894. 2

71087016895. 3

71087016896. 4

Question Number : 85 Question Id : 7108704225 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

Excessive methylation of nitrogenous base 'cytosine' in DNA generally leads to

1. Increased gene activity
2. CpG island excitation
3. Decreased gene activity
4. Increase in length of telomeres

Options :

71087016897. 1
 71087016898. 2
 71087016899. 3
 71087016900. 4

Question Number : 86 Question Id : 7108704226 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
Types of Repetitive DNA sequence	Approximate Lengths
A. VNTRs	I. 6000 bp
B. STRs	II. ~ 500 bp
C. SINEs	III. 2 to 5 bp
D. LINEs	IV. 15 to 100 bp

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

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

Options :

71087016901. 1

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71087016902. 2

71087016903. 3

71087016904. 4

Question Number : 87 Question Id : 7108704227 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

Size of the mammalian spliceosome is approximately

1. 40 S

2. 60 S

3. 100 to 200 nucleotides

4. 80 S

Options :

71087016905. 1

71087016906. 2

71087016907. 3

71087016908. 4

Question Number : 88 Question Id : 7108704228 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 genes is NOT involved in mismatch repair?

1. *Mut H*

2. *Mut C*

3. *Mut L*

4. *Mut S*

Options :

71087016909. 1

71087016910. 2

71087016911. 3

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71087016912. 4

Question Number : 89 Question Id : 7108704229 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

Internal Transcribed Spacer (ITS) refers to

1. Spacer tRNA
2. Spacer rRNA
3. Spacer mRNA
4. Spacer DNA

Options :

71087016913. 1
71087016914. 2
71087016915. 3
71087016916. 4

Question Number : 90 Question Id : 7108704230 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 common and relevant example of Quorum sensing is

1. Biofilm
2. Chemotaxis
3. Signal transduction
4. All of the above

Options :

71087016917. 1
71087016918. 2
71087016919. 3
71087016920. 4

Question Number : 91 Question Id : 7108704231 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 among the following provided insights into signalling pathways?

1. William Frankenstein
2. Kary Mullis
3. William Harvey
4. Earl Sutherland

Options :

- 71087016921. 1
- 71087016922. 2
- 71087016923. 3
- 71087016924. 4

Question Number : 92 Question Id : 7108704232 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

Cellular genes which code for proteins that stimulate normal cell growth and division are called

1. Coding genes
2. *ras* genes
3. Proto-oncogenes
4. Tumor-suppressor genes

Options :

- 71087016925. 1
- 71087016926. 2
- 71087016927. 3
- 71087016928. 4

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Question Number : 93 Question Id : 7108704233 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 infectious mononucleosis causing virus linked to Burkitt's lymphoma in humans is

1. Epstein-Barr virus
2. HTLV-1
3. Papilloma virus
4. IBD virus

Options :

- 71087016929. 1
- 71087016930. 2
- 71087016931. 3
- 71087016932. 4

Question Number : 94 Question Id : 7108704234 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 contrast to adaptive immunity, the innate immunity process specifically offers

1. Recognition of a small range of pathogens and rapid response
2. Use of small set of receptors and slower response
3. Use of a vast array of receptors and rapid response
4. Recognition of a broad range of pathogens, using a small set of receptors

Options :

- 71087016933. 1
- 71087016934. 2
- 71087016935. 3
- 71087016936. 4

Question Number : 95 Question Id : 7108704235 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

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Correct Marks : 4 Wrong Marks : 1

In mammals, the innate immune cells destroy invading pathogens by relying on recognition protein called

1. Lysozyme
2. Interferon
3. Toll-like receptor
4. Histamine

Options :

71087016937. 1
71087016938. 2
71087016939. 3
71087016940. 4

Question Number : 96 Question Id : 7108704236 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

Effector form of B-cells are

1. Plasma cells
2. Macrophages
3. Memory cells
4. Helper cells

Options :

71087016941. 1
71087016942. 2
71087016943. 3
71087016944. 4

Question Number : 97 Question Id : 7108704237 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

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In rDNA technology, the genome is randomly broken into fragments by which one of the following approaches?

1. Contig
2. Shotgun
3. Microarray
4. Chromosome walking

Options :

- 71087016945. 1
- 71087016946. 2
- 71087016947. 3
- 71087016948. 4

Question Number : 98 Question Id : 7108704238 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

Transformation frequency specifically refers to

1. Number of transformants / total seeded
2. Number of white colonies / 100
3. Number of transformants / microgram of DNA
4. Number of transformants / cell

Options :

- 71087016949. 1
- 71087016950. 2
- 71087016951. 3
- 71087016952. 4

Question Number : 99 Question Id : 7108704239 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

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Important markers present in the plasmid "PUC-8" are

1. Kanamycin and X-gal
2. Ampicillin and multiple cloning site
3. *Lac Z* and tetracycline
4. Ampicillin and tetracycline

Options :

- 71087016953. 1
- 71087016954. 2
- 71087016955. 3
- 71087016956. 4

Question Number : 100 Question Id : 7108704240 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

Addition of which one of the following agents leads to chromosomal breakage during the extraction process?

1. Trizol
2. EDTA
3. SDS
4. Triton X-100

Options :

- 71087016957. 1
- 71087016958. 2
- 71087016959. 3
- 71087016960. 4

Question Number : 101 Question Id : 7108704241 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

9/24/2020

Reverse genetics approach involves construction of cDNA infectious clones for which one of the following types of viruses?

1. DNA
2. RNA
3. Segmented DNA
4. Ss-DNA

Options :

- 71087016961. 1
- 71087016962. 2
- 71087016963. 3
- 71087016964. 4

Question Number : 102 Question Id : 7108704242 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

What could be the size of inserts for Yeast Artificial Chromosome (YAC) cloning systems?

1. 100 to 300 kb
2. Less than 100 kb
3. 100 to 1000 kb
4. More than 1000 kb

Options :

- 71087016965. 1
- 71087016966. 2
- 71087016967. 3
- 71087016968. 4

Question Number : 103 Question Id : 7108704243 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

9/24/2020

Computer automated high throughput DNA sequencers can achieve read lengths and accuracy, respectively, of about:

1. 500 bp and 99 percent
2. 1000 bp and 99.999 percent
3. 10,000 bp and 100 percent
4. 100 kbp and 99.9 percent

Options :

- 71087016969. 1
- 71087016970. 2
- 71087016971. 3
- 71087016972. 4

Question Number : 104 Question Id : 7108704244 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

Single Nucleotide Polymorphisms (SNPs) are present in a population to the extent of approximately,

1. 3 percent
2. 1 percent
3. 0.1 percent
4. 0.001 percent

Options :

- 71087016973. 1
- 71087016974. 2
- 71087016975. 3
- 71087016976. 4

Question Number : 105 Question Id : 7108704245 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

9/24/2020

MTT assay is used for the evaluation of

1. Cytotoxicity
2. Virus titration
3. Cell viability
4. Cell proliferation

Options :

- 71087016977. 1
- 71087016978. 2
- 71087016979. 3
- 71087016980. 4

Question Number : 106 Question Id : 7108704246 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

Usual concentration of CO₂ required for culturing animal cells is

1. 1 to 2 percent
2. 25 percent
3. 15 to 20 percent
4. 2 to 5 percent

Options :

- 71087016981. 1
- 71087016982. 2
- 71087016983. 3
- 71087016984. 4

Question Number : 107 Question Id : 7108704247 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

9/24/2020

Serum comprises,

1. Blood plasma only
2. Blood plasma including fibrinogen
3. Cellular fraction of blood
4. Blood plasma excluding fibrinogen

Options :

- 71087016985. 1
- 71087016986. 2
- 71087016987. 3
- 71087016988. 4

Question Number : 108 Question Id : 7108704248 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 among the following was the first to postulate the finite life span of primary cells?

1. Moore
2. Rous
3. Hayflick
4. Carell

Options :

- 71087016989. 1
- 71087016990. 2
- 71087016991. 3
- 71087016992. 4

Question Number : 109 Question Id : 7108704249 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

Cytokeratin is a specific marker for

1. Fibroblast cells
2. Stem cells
3. Mesenchymal cells
4. Epithelial cells

Options :

- 71087016993. 1
- 71087016994. 2
- 71087016995. 3
- 71087016996. 4

Question Number : 110 Question Id : 7108704250 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 part of an antigen recognized by a monoclonal antibody is a/an

1. Idiotope
2. Epitope
3. Paratope
4. Active site

Options :

- 71087016997. 1
- 71087016998. 2
- 71087016999. 3
- 71087017000. 4

Question Number : 111 Question Id : 7108704251 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

9/24/2020

Hybridomas are usually generated by the fusion of which two of the following cell types?

1. T-cells with myeloma cells
2. B-cells with myeloma cells
3. T-helper cells with spleen cells
4. Memory cells with spleenocytes

Options :

- 71087017001. 1
- 71087017002. 2
- 71087017003. 3
- 71087017004. 4

Question Number : 112 Question Id : 7108704252 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 first chemotherapeutic monoclonal antibody approved for clinical use in cancer therapeutics in 1997 was

1. Rituximab
2. Trastuzumab
3. Infliximab
4. Tomoxifen

Options :

- 71087017005. 1
- 71087017006. 2
- 71087017007. 3
- 71087017008. 4

Question Number : 113 Question Id : 7108704253 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 first vaccine developed from an animal cell culture was against

1. Hepatitis
2. Influenza
3. Small pox
4. Polio

Options :

71087017009. 1
71087017010. 2
71087017011. 3
71087017012. 4

Question Number : 114 Question Id : 7108704254 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 first transgenic animal "a supermouse" was created by insertion of which one of the following into the mouse genome?

1. Human insulin gene
2. Human growth hormone gene
3. Porcine FSH gene
4. Mouse growth hormone gene

Options :

71087017013. 1
71087017014. 2
71087017015. 3
71087017016. 4

Question Number : 115 Question Id : 7108704255 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 the first animal produced through reproductive cloning in India??

1. Lalima
2. Pratham
3. Noori
4. Garima

Options :

71087017017. 1
71087017018. 2
71087017019. 3
71087017020. 4

Question Number : 116 Question Id : 7108704256 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

Superovulation in farm animals is generally induced by

1. Growth hormone
2. Prolactin
3. Estradiol
4. Gonadotropin

Options :

71087017021. 1
71087017022. 2
71087017023. 3
71087017024. 4

Question Number : 117 Question Id : 7108704257 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

9/24/2020

Synchronization of oestrus in cattle is generally achieved by the use of

1. Prostaglandins only
2. Progestagens only
3. Both prostaglandins and progestagens
4. Neither prostaglandins nor progestagens

Options :

- 71087017025. 1
- 71087017026. 2
- 71087017027. 3
- 71087017028. 4

Question Number : 118 Question Id : 7108704258 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 fixed time Embryo Transfer protocol, which one of the following is administered on Day zero?

1. eCG
2. Oestradiol benzoate
3. FSH
4. LH

Options :

- 71087017029. 1
- 71087017030. 2
- 71087017031. 3
- 71087017032. 4

Question Number : 119 Question Id : 7108704259 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 enzymes is generally used for the removal of cumulus cells from Cumulus-oocyte complexes (COC's)?

1. Pronase
2. Trypsin
3. Hyaluronidase
4. Accutase

Options :

- 71087017033. 1
- 71087017034. 2
- 71087017035. 3
- 71087017036. 4

Question Number : 120 Question Id : 7108704260 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 recent and target oriented gene editing technique for the production of knockout and gene disrupted species is

1. CRISPR-Cas
2. Zinc finger nuclease
3. TALEN's
4. Retroviral

Options :

- 71087017037. 1
- 71087017038. 2
- 71087017039. 3
- 71087017040. 4