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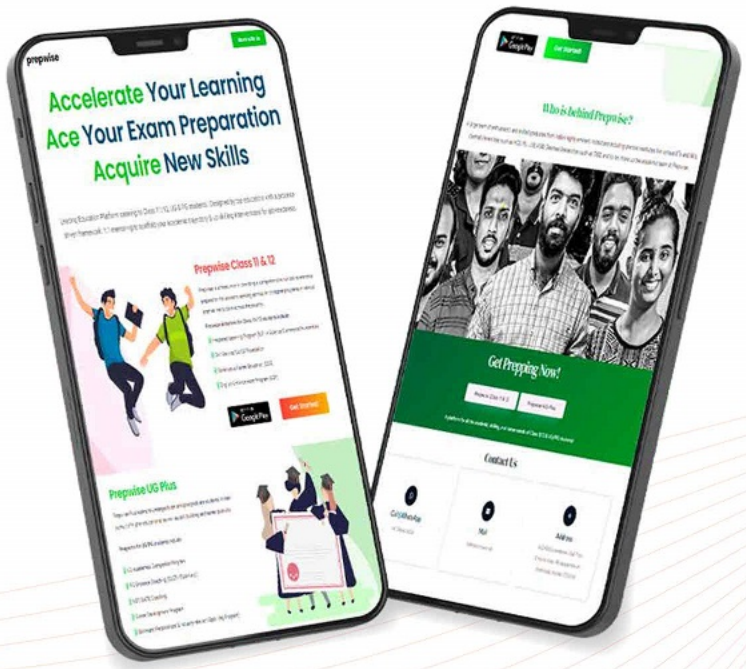

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Previous Year Question Paper

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CUET UG

Previous Year Question Paper

2022

Section II
Biology

Section Name:BIOLOGY
Question:

Foetal ejection reflex triggers the release of which hormone from the maternal pituitary ?

(1) Progesterone
(2) Oxytocin
(3) Androgens
(4) Prolactin

Section Name:BIOLOGY
Question:

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

	List - I		**List - II**
(A)	Rosie	(I)	Emphysema
(B)	BioPiracy	(II)	Right granted for Bio-resource
(C)	BioPatent	(III)	Unauthorized use/exploitation of Bioresources
(D)	α-1 antitrypsin	(IV)	Transgenic cow

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

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

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

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

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

Question:

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

	List - I		**List - II**
(A)	ZIFT (Zygote intra fallopian transfer)	(I)	Transfer of ovum collected from donar to fallopian tube
(B)	IUT (Intra Uterine transfer)	(II)	Sperm is directly injected into ovum
(C)	GIFT	(III)	Transfer of embryos with more than 8 blastomere
(D)	ICSI (Intra cytoplasmic sperm injection)	(IV)	Transfer of early embryos upto 8 blastomere

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

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

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

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

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

Section Name:BIOLOGY
Question:

Arrange the statement in correct sequence with reference to insulin.

(A) Extraction of chain A and B

(B) Introduction of DNA sequences for A and B chain in Plasmid of E.coli

(C) Combining of chain A and B through disulphide bond

(D) Preparation of two DNA sequence corresponding to A and B, chain of human insulin

(E) Separate production of chain A and B

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

(1) (D), (B), (C), (A), (E)

(2) (D), (B), (E), (A), (C)

(3) (D), (B), (A), (E), (C)

(4) (D), (A), (B), (E), (C)

Question:

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

	List - I		**List - II**
(A)	Rhino Virus	(I)	Contaminated Food and water
(B)	*Plasmodium*	(II)	Acquired Immuno Deficiency syndrome
(C)	*Salmonella*	(III)	Protozoa
(D)	AIDS	(IV)	Common cold

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

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

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

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

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

Section Name:BIOLOGY
Question:

In integrated pest Management Programme, the use of Baculovirses to attack insect and arthropods is desirable because :

(1) they are species - specific

(2) they have negative impact on birds

(3) they have broad spectrum insecticide application

(4) ecologically sensitive areas cannot be treated

Question:

Select the CORRECT statements regarding the process of decomposition.

(A) Decomposers break down complex organic matter into inorganic substances like CO_2, water and nutrients.

(B) Detrivores break down leaves, dead animals, fecal matter into smaller particles.

(C) Leaching is the process where water soluble organic nutrients get precipitated as unavailable salts.

(D) Humification leads to degrade detritus into simpler inorganic substances.

(E) During mineralisation, humus is degraded by microbes to release inorganic nutrients

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

(1) (A) and (B) only

(2) (A) and (E) only

(3) (A), (B) and (E) only

(4) (C), (D) and (E) only

Section Name:BIOLOGY
Question:

Phosphoros is NOT the part of _____.

(1) Biological membranes

(2) Cell walls

(3) Nucleic acids

(4) Cellular energy transfer systems

Question:

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

Assertion (A) : Motor vehicles equipped with catalytic converter should use unleaded petrol.

Reason (R) : Lead in the petrol activates the catalyst namely platinum-palladium and Rhodium used in catalytic converter.

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

(1) Both **(A)** and **(R)** are true and **(R)** is the correct explanation of **(A)**

(2) Both **(A)** and **(R)** are true but **(R)** is **not** the correct explanation of **(A)**

(3) **(A)** is true but **(R)** is false

(4) **(A)** is false **(R)** is true

Section Name:BIOLOGY
Question:

Arrange the given steps of recombinant DNA technology in sequential order :

(A) Cutting foreign DNA and vector DNA with same restriction enzyme at specific point

(B) Transformation of host cell by introducing recombinant DNA into host

(C) Selection of foreign DNA and Vector DNA

(D) Ligating foreign DNA to vector

(E) Screening of transformed host cells

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

(1) (C), (A), (D), (B), (E)

(2) (C), (D), (B), (A), (E)

(3) (C), (A), (B), (D), (E)

(4) (C), (A), (B), (E), (D)

Question:

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

	List - I		**List - II**
(A)	Secondary Productivity	(I)	Gross primary Productivity minus respiration losses
(B)	Net Primary Productivity	(II)	The rate of production of organic matter during photosynthesis in the ecosystem
(C)	Gross Primary Productivity	(III)	Rate of formation of new organic matter by consumer
(D)	Productivity	(IV)	The rate of biomass production

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

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

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

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

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

Section Name:BIOLOGY
Question:

A cross between two violet flower pea plants produce few white flower bearing pea plants. What would be the genotypes of both the parents ?

(1) Vv × Vv

(2) VV × Vv

(3) Vv × vv

(4) VV × vv

Section Name:BIOLOGY
Question:

When one gene can exhibit multiple phenotypic expression that is if one single gene can control two more different characters simultaneously, the phenomenon is called :

(1) Polyembryony
(2) Pleiotropy
(3) Polyploidy
(4) Polygenic inheritance

Section Name:BIOLOGY
Question:

For experimental proof of semiconservative replication which bacterium was used by Meselson and Stahl in 1958 ?

(1) *Propionibacterium sharmanii*

(2) *Lactobacillus*

(3) *Escherichia coli*

(4) *Bacillus thuringiensis*

Section Name:BIOLOGY
Question:

India has 50,000 genetically different strains of rice. The level of biodiversity is :

(1) Population diversity
(2) Species diversity
(3) Genetic diversity
(4) Ecological diversity

Section Name:BIOLOGY
Question:

In India, ecologically unique regions are legally protected as they are biodiversity rich in nature. Which one of the following is NOT a feature of biodiversity hotspots ?

(1) Large number of species

(2) Abundance of endemic species

(3) *Ex-situ*-conservation

(4) All the biodiversity hotspots put together cover less than 2 percent of the Earth's land area

Section Name:BIOLOGY
Question:

Which one of the following method involves vector for gene transfer ?

(1) Biolistics
(2) Microinjection
(3) Electroporation
(4) *Agrobacterium* mediated

Section Name:BIOLOGY
Question:

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

	List - I		**List - II**
(A)	Corpus luteum	(I)	Provide nutrition to the germ cells
(B)	Bulbourethral glands	(II)	Synthesise and secrete hormone called androgen
(C)	Leydig cells	(III)	Secretes large amount of progesterone
(D)	Sertoli cells	(IV)	Lubrication of the penis

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

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

Section Name:BIOLOGY
Question:

Name the process that takes place in all eukaryotic organisms as a method of cellular defence :

(1) DNA Replication
(2) Transcription
(3) Translation
(4) RNA interference (RNAi)

Section Name:BIOLOGY
Question:

It is found that RNA mutates very fast, that is due to the following reason.

(1) It is found both in nucleus as well as in the cytoplasm

(2) It is single stranded

(3) It occurs in soluble form in the cytoplasm

(4) Shows presence of an extra - OH group that makes it more reactive and lesss stable.

Section Name:BIOLOGY
Question:

Mule is an example of :

(1) Out breeding

(2) In breeding

(3) Cross breeding

(4) Interspecific hybridization

Section Name:BIOLOGY
Question:

If the change in allele frequency is so different in the new sample of population that they become a different species, the effect is known as :

(1) Natural selection
(2) Branching Descent
(3) Founder Effect
(4) Genetic Drift

Question:

The DNA content of a human sperm is _____ :

(1) 5386 nucleotides

(2) 48502 bp

(3) 4.6×10^6 bp

(4) 3.3×10^9 bp

Section Name:BIOLOGY
Question:

Which one of the following is an example of evolution by anthropogenic action ?

(1) Innate immunity
(2) Inheritance from parents
(3) Adaptive Radiation
(4) Resistance of microbes against antibiotics

Section Name:BIOLOGY
Question:

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

	List - I		**List - II**
(A)	Wheat	(I)	Black rot
(B)	Sugar cane	(II)	Red rot
(C)	Potato	(III)	Late blight
(D)	Crucifers	(IV)	Brown rust

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

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

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

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

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

Section Name:BIOLOGY
Question:

Arrange the steps of plant breeding programme in sequence ?

(A) Evaluation and selection of parents

(B) Cross hybridisation between selected parents

(C) Collection of Variability

(D) Testing, release and commercialisation of new cultivar

(E) Selection and testing superior recombinants

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

(1) (A), (C), (B), (E), (D)

(2) (C), (B), (A), (E), (D)

(3) (A), (E), (C), (B), (D)

(4) (C), (A), (B), (E), (D)

Section Name:BIOLOGY
Question:

Which of the following is INCORRECT statements with respect to bioreactor :

(A) Small volume of cultures can not yield appreciable quantities of products.

(B) Most commonly used bioreactors are of non-stirring type.

(C) Down stream processing and quality control testing is same for all products.

(D) Sampling port of bioreactor facilitate withdrawl of culture periodically.

(E) The stirrer facilitates even mixing and oxygen availability throughout the bioreactor.

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

(1) (A) and (D) only

(2) (B) and (C) only

(3) (D) and (E) only

(4) (B) and (E) only

Question:

Cocaine is obtained from :

(1) *Papaver somniferum*

(2) *Cannabis sativa*

(3) *Erythroxylum coca*

(4) *Datura*

Section Name:BIOLOGY
Question:

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

	List - I		**List - II**
(A)	*Aspergillus niger*	(I)	Butyric acid
(B)	*Clostridium butylicum*	(II)	Lactic acid
(C)	*Lactobacillus*	(III)	Citric acid
(D)	*Saccharomyces cerevisiae*	(IV)	Ethanol

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

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

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

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

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

Question:

Given below are two statements :

Statement I : A part from surgery, radiation therapy and immunotherapy, patients suffering from cancer are given biological response modifiers like α-interferon.

Statement II : α-interferon can activate immune system and destroy those tumor cells that are not detected by immune system.

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

(1) Both **Statement I** and **Statement II** are true

(2) Both **Statement I** and **Statement II** are false

(3) **Statement I** is correct but **Statement II** is false

(4) **Statement I** is incorrect but **Statement II** is true

Section Name:BIOLOGY
Question:

Many people face 'allergy' it is due to which chemical produced in body ?

(1) Hemozoin
(2) Tyrosine
(3) Serotonine and Histamine
(4) Dopamine

Question:

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

	List - I		**List - II**
(A)	Oral pills	(I)	Prevents sperms reaching cervix
(B)	Condom	(II)	Prevents implantation
(C)	Vasectomy	(III)	Prevents ovulation
(D)	Copper T	(IV)	Semen contains no sperm

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

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

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

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

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

Section Name:BIOLOGY
Question:

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

	List - I		**List - II**
(A)	Down's syndrome	(I)	A single gene with multiple phenotypic expression
(B)	Phenylketonutia	(II)	Sex linked recessive disease
(C)	Haemophilia	(III)	Trisomy of 21st Chromosome
(D)	Thalassemia	(IV)	Autosome linked recessive trait controlled by a single pair of allele

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

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

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

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

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

Question:

Which among the following enzymes is used to join DNA fragments (end-to-end) ?

(1) DNA polymerase

(2) Primase

(3) DNA ligase

(4) DNA dependent RNA polymerase

Section Name:BIOLOGY
Question:

Out of the following, which is NOT the example of a copper releasing IUD ?

(1) LNG-20
(2) Cu 7
(3) Cu T
(4) Multiload 375

Section Name:BIOLOGY
Question:

DNA finger printing comprises of various steps. Arrange them in sequential order.

(A) Digestion of DNA by Restriction Endonucleases.

(B) Hybridisation using labelled VNTR Probe.

(C) Transferring of separated DNA fragments

(D) Isolation of DNA

(E) Separation of DNA by electrophoresis

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

(1) (B), (A), (D), (E) and (C)

(2) (D), (A), (E), (C) and (B)

(3) (A), (B), (C), (D) and (E)

(4) (E), (C), (B), (A) and (D)

Section Name: BIOLOGY
Question:

ADA deficiency can be cured by _____.

(1) consumption of Adenosine deaminase capsules

(2) hormone replacement therapy

(3) introduction of functional ADA cDNA into the bone cells grown in a culture which is returned subsequently to the patient

(4) cured by Periodic infusion of genetically engineered lymphocytes ADA cDNA into the patient.

Section Name:BIOLOGY
Question:

How many nucleotides are present in a bacteriophage called $\phi \times 174$?

(1) 1567

(2) 5386

(3) 3.3×10^9

(4) 48052

Section Name:BIOLOGY
Question:

Inner mass cell has the potency to give rise to all the tissues and organs as it contains :

(1) Polar body
(2) Mitochondria
(3) Stem cells
(4) Interstitial cells

Question:

The antibiotic resistant genes on the artificial plasmid pBR 322 are used _____ in genetic enegineering experiments.

(1) to keep the culture free of contamination

(2) as selectable markers

(3) to select healthy colonies

(4) as probes to check transformation

Section Name: BIOLOGY
Question:

Read the following passage and answer the questions :

To over come unfavourable conditions organisms shows different responses to abiotic factors some organisms are able to maintain homeostasis by physiological (sometimes behavioural also) means which ensures constant body temperature, constant osmotic concentration etc. 'Success of mammals is largely due to abilty to show homeostasis. All birds and mammals and very few lower vertebrate and invertebrate species shown thermoregulation and osmoregulation. Plants do not have mechanism to maintain internal temperature. An over whelming majority (99 percent) of animal cannot maintain. constant internal environment. They are called confermers. Aquatic animals and plants are simple conformers. Thermoregulation is energetically expensive in small animals like shews and humming birds small animals are rarely found in polar regions because heat loss or gain depends upon surface area. Organisms can move away temporarily from stressfal habitat is called migration. Siberian birds, migrate to Bharatpur in Rajasthan to avoid extream cold northern regions. Reducing metabolic activity and showing state of dormancy is example of suspend mechanism. Some snails and fish undergo aestivation to avoid summer related problem like heat and dessication similar case of suspend is bears going into hibernation during winter. Many Zoo planktons species in lakes and ponds enter diapause, a stage of suspended development.

Which of the following are NOT regulators ?

(1) Sparrows and crows

(2) Monkeys and Man

(3) Plants

(4) Rabbits and Man

Section Name: BIOLOGY
Question:

Read the following passage and answer the questions :

To over come unfavourable conditions organisms shows different responses to abiotic factors some organisms are able to maintain homeostasis by physiological (sometimes behavioural also) means which ensures constant body temperature, constant osmotic concentration etc. 'Success of mammals is largely due to abilty to show homeostasis. All birds and mammals and very few lower vertebrate and invertebrate species shown thermoregulation and osmoregulation. Plants do not have mechanism to maintain internal temperature. An over whelming majority (99 percent) of animal cannot maintain. constant internal environment. They are called confermers. Aquatic animals and plants are simple conformers. Thermoregulation is energetically expensive in small animals like shews and humming birds small animals are rarely found in polar regions because heat loss or gain depends upon surface area. Organisms can move away temporarily from stressfal habitat is called migration. Siberian birds, migrate to Bharatpur in Rajasthan to avoid extream cold northern regions. Reducing metabolic activity and showing state of dormancy is example of suspend mechanism. Some snails and fish undergo aestivation to avoid summer related problem like heat and dessication similar case of suspend is bears going into hibernation during winter. Many Zoo planktons species in lakes and ponds enter diapause, a stage of suspended development.

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

	List - I		**List - II**
(A)	Shrews and humming birds	(I)	Suspend
(B)	Birds and mammals	(II)	Regulators
(C)	Snails and Fish	(III)	Migration
(D)	Siberian birds	(IV)	Conformer

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

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

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

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

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

Section Name: BIOLOGY
Question:

Read the following passage and answer the questions :

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Success of mammal is largely due to :

(1) Migration

(2) Regulator

(3) Conformer

(4) Suspend

Section Name: BIOLOGY
Question:

Read the following passage and answer the questions :

To over come unfavourable conditions organisms shows different responses to abiotic factors some organisms are able to maintain homeostasis by physiological (sometimes behavioural also) means which ensures constant body temperature, constant osmotic concentration etc. 'Success of mammals is largely due to abilty to show homeostasis. All birds and mammals and very few lower vertebrate and invertebrate species shown thermoregulation and osmoregulation. Plants do not have mechanism to maintain internal temperature. An over whelming majority (99 percent) of animal cannot maintain. constant internal environment. They are called confermers. Aquatic animals and plants are simple conformers. Thermoregulation is energetically expensive in small animals like shews and humming birds small animals are rarely found in polar regions because heat loss or gain depends upon surface area. Organisms can move away temporarily from stressfal habitat is called migration. Siberian birds, migrate to Bharatpur in Rajasthan to avoid extream cold northern regions. Reducing metabolic activity and showing state of dormancy is example of suspend mechanism. Some snails and fish undergo aestivation to avoid summer related problem like heat and dessication similar case of suspend is bears going into hibernation during winter. Many Zoo planktons species in lakes and ponds enter diapause, a stage of suspended development.

A stage of suspended development called diapause is shown by :

(1) snails

(2) zoo planktons

(3) lower vertebrates

(4) bears

Section Name: BIOLOGY
Question:

Read the following passage and answer the questions :

To over come unfavourable conditions organisms shows different responses to abiotic factors some organisms are able to maintain homeostasis by physiological (sometimes behavioural also) means which ensures constant body temperature, constant osmotic concentration etc. 'Success of mammals is largely due to abilty to show homeostasis. All birds and mammals and very few lower vertebrate and invertebrate species shown thermoregulation and osmoregulation. Plants do not have mechanism to maintain internal temperature. An over whelming majority (99 percent) of animal cannot maintain. constant internal environment. They are called confermers. Aquatic animals and plants are simple conformers. Thermoregulation is energetically expensive in small animals like shews and humming birds small animals are rarely found in polar regions because heat loss or gain depends upon surface area. Organisms can move away temporarily from stressfal habitat is called migration. Siberian birds, migrate to Bharatpur in Rajasthan to avoid extream cold northern regions. Reducing metabolic activity and showing state of dormancy is example of suspend mechanism. Some snails and fish undergo aestivation to avoid summer related problem like heat and dessication similar case of suspend is bears going into hibernation during winter. Many Zoo planktons species in lakes and ponds enter diapause, a stage of suspended development.

Moving temporarily to more hospitable area to overcome extremely cold region is shown by _____.

(1) Siberian birds

(2) Humming birds

(3) Zooplanktons

(4) Snails

Question:

Read the following paragraph and attempt the MCQ's given below :

The pollengrains represent the male gametophytes. Pollengrains are generally spherical measuring about 25 - 50 micrometers in diameters. It consists of two layers i.e. exine and intine. Exine is thick and hard. Exine is made up of sporopollenin which is one of the most resistent organic material, sporopollerian is not affected by high temp, alkali or acid. Exine contains small apertured called germ pores. Pollerigrains are well preserved as fossils because of the presence of sporopollenin. The intine is inner wall of pollengrain, made up of cellulose and pectin. Pollengrains of many species cause severe allergies and bronchial afflictions in some people often leading to chronic respiratory disorder like asthama and bronchitis. It may be mentioned that parthenium came into India as contaminant with imported wheat, has become ubiquitous in occurance and causes pollen allergy. It is possible to store pollen grains of large number of species for years in liquid nitrogen (−196°C). Such stored pollen can be used as pollen banks, similar to seed banks in crop breeding programmes.

Male gametophyte is represented by a/an _____.

(1) Carpel

(2) Pollengrain

(3) Stigma

(4) Anther

Question:

Read the following paragraph and attempt the MCQ's given below :

The pollengrains represent the male gametophytes. Pollengrains are generally spherical measuring about 25 - 50 micrometers in diameters. It consists of two layers i.e. exine and intine. Exine is thick and hard. Exine is made up of sporopollenin which is one of the most resistent organic material, sporopollerian is not affected by high temp, alkali or acid. Exine contains small apertured called germ pores. Pollerigrains are well preserved as fossils because of the presence of sporopollenin. The intine is inner wall of pollengrain, made up of cellulose and pectin. Pollengrains of many species cause severe allergies and bronchial afflictions in some people often leading to chronic respiratory disorder like asthama and bronchitis. It may be mentioned that parthenium came into India as contaminant with imported wheat, has become ubiquitous in occurance and causes pollen allergy. It is possible to store pollen grains of large number of species for years in liquid nitrogen (−196°C). Such stored pollen can be used as pollen banks, similar to seed banks in crop breeding programmes.

Generally diameter of pollengrains is about _____ micrometers.

(1) 10 - 15

(2) 16 - 20

(3) 25 - 50

(4) 60 - 75

Question:

Read the following paragraph and attempt the MCQ's given below :

The pollengrains represent the male gametophytes. Pollengrains are generally spherical measuring about 25 - 50 micrometers in diameters. It consists of two layers i.e. exine and intine. Exine is thick and hard. Exine is made up of sporopollenin which is one of the most resistent organic material, sporopollerian is not affected by high temp, alkali or acid. Exine contains small apertured called germ pores. Pollerigrains are well preserved as fossils because of the presence of sporopollenin. The intine is inner wall of pollengrain, made up of cellulose and pectin. Pollengrains of many species cause severe allergies and bronchial afflictions in some people often leading to chronic respiratory disorder like asthama and bronchitis. It may be mentioned that parthenium came into India as contaminant with imported wheat, has become ubiquitous in occurance and causes pollen allergy. It is possible to store pollen grains of large number of species for years in liquid nitrogen (−196°C). Such stored pollen can be used as pollen banks, similar to seed banks in crop breeding programmes.

Pollen grains are well preserved as fossils because of presence of :

(1) Cellulose

(2) Pectin

(3) Sporopollenin

(4) Lignin

Question:

Read the following paragraph and attempt the MCQ's given below :

The pollengrains represent the male gametophytes. Pollengrains are generally spherical measuring about 25 - 50 micrometers in diameters. It consists of two layers i.e. exine and intine. Exine is thick and hard. Exine is made up of sporopollenin which is one of the most resistent organic material, sporopollerian is not affected by high temp, alkali or acid. Exine contains small apertured called germ pores. Pollerigrains are well preserved as fossils because of the presence of sporopollenin. The intine is inner wall of pollengrain, made up of cellulose and pectin. Pollengrains of many species cause severe allergies and bronchial afflictions in some people often leading to chronic respiratory disorder like asthama and bronchitis. It may be mentioned that parthenium came into India as contaminant with imported wheat, has become ubiquitous in occurance and causes pollen allergy. It is possible to store pollen grains of large number of species for years in liquid nitrogen (−196°C). Such stored pollen can be used as pollen banks, similar to seed banks in crop breeding programmes.

Chronic respiratory disorders like asthma and bronchitis are caused due to pollengrains of :

(1) Wheat

(2) Rice

(3) Jawar

(4) *Parthenium*

Question:

Read the following paragraph and attempt the MCQ's given below :

The pollengrains represent the male gametophytes. Pollengrains are generally spherical measuring about 25 - 50 micrometers in diameters. It consists of two layers i.e. exine and intine. Exine is thick and hard. Exine is made up of sporopollenin which is one of the most resistent organic material, sporopollerian is not affected by high temp, alkali or acid. Exine contains small apertured called germ pores. Pollerigrains are well preserved as fossils because of the presence of sporopollenin. The intine is inner wall of pollengrain, made up of cellulose and pectin. Pollengrains of many species cause severe allergies and bronchial afflictions in some people often leading to chronic respiratory disorder like asthama and bronchitis. It may be mentioned that parthenium came into India as contaminant with imported wheat, has become ubiquitous in occurance and causes pollen allergy. It is possible to store pollen grains of large number of species for years in liquid nitrogen (−196°C). Such stored pollen can be used as pollen banks, similar to seed banks in crop breeding programmes.

In Pollenbanks, pollen grains are stored in liquid nitrogen for years at _____ temperature.

(1) 37°C

(2) 196°C

(3) −196°C

(4) −260°C