

Subject:	Biology/Biological Studies/Biotechnology/Biochemistry
Set Name:	V1_Set01
Code:	304
Exam Date:	17-04-2026
SLOT:	1

Question ID	13572
Question Type	MCQ
Question	During microsporogenesis in plants, meiosis occurs in : 1. Endothecium 2. Pollen mother cells 3. Microspore tetrads 4. Pollen grains
Options	
A	1
B	2
C	3
D	4

Question ID	13573
Question Type	MCQ
Question	Which one of the following is not a male accessory gland? 1. Seminal vesicle 2. Ampulla 3. Prostate 4. Bulbourethral gland
Options	
A	1
B	2
C	3
D	4

Question ID	13574
Question Type	MCQ
Question	In <i>Vallisneria</i>, pollination takes place through : 1. Wind 2. Water 3. Insects 4. Birds
Options	
A	1
B	2
C	3
D	4

Question ID	13575
Question Type	MCQ
Question	The innermost wall layer of microsporangium which nourishes the developing pollen grains is _____. 1. Epidermis 2. Endothecium 3. Tapetum 4. Middle layer

Options	
A	1
B	2
C	3
D	4

Question ID	13576
Question Type	MCQ
Question	In 'rivet popper hypothesis', the word rivet stands for : 1. Ecosystem 2. Community 3. Key species 4. Species
Options	
A	1
B	2
C	3
D	4

Question ID	13577
Question Type	MCQ
Question	The historic convention on Biological Diversity held in Rio de Janeiro in 1992 is also known as : 1. CITES Convention 2. The Earth Summit 3. G-16 Summit 4. MAB Programme
Options	
A	1
B	2
C	3
D	4

Question ID	13578
Question Type	MCQ
Question	Productivity is the rate of production of biomass expressed in terms of : 1. $\text{gm}^{-1} \text{yr}^{-2}$ 2. $\text{gm}^{-2} \text{yr}^{-1}$ 3. $(\text{Kcal m}^{-1}) \text{yr}^{-2}$ 4. $(\text{Kcal m}^{-2}) \text{yr}$
Options	
A	1
B	2
C	3
D	4

Question ID	13579
Question Type	MCQ
Question	If a population of 50 <i>Paramecium</i> cells are present in a pool got increased to 150 after an hour, what would be the growth rate? 1. 15 offspring per <i>Paramecium</i> per hour 2. 10 offspring per <i>Paramecium</i> per hour 3. 1 offspring per <i>Paramecium</i> per hour

4. 2 offspring per *Paramecium* per hour

Options

A	1
B	2
C	3
D	4

Question ID 13580

Question Type MCQ

Question

The conservation method where a threatened species is taken out from its natural habitat and placed in a special protected place is known as _____.

1. Co-extinction
2. In-situ conservation
3. Ex-situ conservation
4. Protected conservation

Options

A	1
B	2
C	3
D	4

Question ID 13581

Question Type MCQ

Question

In which of the following ecosystem, the biomass of primary consumer is more than that of producers?

1. Forest
2. Ocean
3. Desert
4. Grassland

Options

A	1
B	2
C	3
D	4

Question ID 13582

Question Type MCQ

Question

GEAC stands for :

1. Genome Engineering Action Committee
2. Ground Environment Action Committee
3. Genetic Engineering Approval Committee
4. Genetic and Environment Approval Committee

Options

A	1
B	2
C	3
D	4

Question ID 13583

Question Type MCQ

Question

An insect ingested the Bt toxin protein and it is converted into its active form due to _____.

1. acidic pH of the saliva
2. acidic pH of the gut

3. alkaline pH of the gut
4. neutral pH of the gut

Options

A	1
B	2
C	3
D	4

Question ID 13584

Question Type MCQ

Question

Which part of a virus infected plant is free of viral infection among the following?

1. Bud
2. Meristem
3. Root
4. Flower

Options

A	1
B	2
C	3
D	4

Question ID 13585

Question Type MCQ

Question

Breast feeding during the initial period of infant growth is recommended by doctors, especially the colostrum, as it contain _____ antibodies.

1. Ig A
2. Ig E
3. Ig G
4. Ig M

Options

A	1
B	2
C	3
D	4

Question ID 13586

Question Type MCQ

Question

Four water samples were taken and subjected to BOD test. The BOD values of the 4 samples A, B, C and D were recorded as 20 mg/L, 8mg/L, 400 mg/L and 100 mg/L respectively. Which sample of the water is the most polluted?

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

Options

A	1
B	2
C	3
D	4

Question ID 13587

Question Type MCQ

The net electric charges on DNA and histones are :

Question	1. both positive 2. both negative 3. negative and positive respectively 4. positive and negative respectively
Options	
A	1
B	2
C	3
D	4

Question ID	13588
Question Type	MCQ
Question	For a double stranded DNA, if the percentage of Adenine is 23%. What will be the percentage of Guanine in it?
Options	
A	1
B	2
C	3
D	4

Question ID	13589
Question Type	MCQ
Question	Analogous structures are result of : 1. Divergent evolution 2. Diverse evolution 3. Convergent evolution 4. Adaptive radiation
Options	
A	1
B	2
C	3
D	4

Question ID	13590
Question Type	MCQ
Question	While breeding, bagging of emasculated flower is done to : 1. Preserve the moisture content of the flower. 2. Prevent contamination of its stigma with unwanted pollen. 3. Prevent maturity of the pollen grains. 4. Prevent fertilization of the embryo.
Options	
A	1
B	2
C	3
D	4

Question ID	13591
Question Type	MCQ
Question	Which of the following observations drawn from human genome project are correct?

- A. The human genome contains 3164.7 million bp.
 B. The functions are known for over 50 percent of the discovered gene.
 C. The average gene consists of 3000 bases but sizes vary.
 D. Less than 2 percent of the genome codes for proteins.
 E. Chromosome 1 has most genes and the Y has the fewest.

Question

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

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

Options

A	1
B	2
C	3
D	4

Question ID 13592

Question Type MCQ

A typical angiosperm embryo sac at maturity is :

- A. 8 nucleate
- B. 7 nucleate
- C. 8 celled
- D. 7 celled

Question

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

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

Options

A	1
B	2
C	3
D	4

Question ID 13593

Question Type MCQ

Match the **LIST-I** with **LIST-II**

LIST-I (Contraceptive Devices)		LIST-II (Applications)	
A.	Lippes Loop	I.	Copper Releasing IUD
B.	Multiload 375	II.	Condom
C.	LNG-20	III.	Non-Medicated IUD
D.	Nirodh	IV.	Hormone Releasing IUD

Question

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

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

Options

A	1
B	2
C	3

Question ID

13594

Question Type

MCQ

Question

Match the animals given in **LIST-I** with their location in **LIST-II**

LIST-I (Extinct Species)		LIST-II (Countries)	
A.	Dodo	I.	Africa
B.	Quagga	II.	Russia
C.	Thylacine	III.	Mauritius
D.	Stellar's sea cow	IV.	Australia

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

1.

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

2.

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

3.

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

4.

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

Options

A

1

B

2

C

3

D

4

Question ID

13595

Question Type

MCQ

Question

Match the LIST-I with LIST-II

LIST-I (Products)		LIST-II (Organisms)	
A.	Clot Buster Medicine/Drug	I.	<i>Trichoderma</i>
B.	Cyclosporin A	II.	<i>Propionibacterium</i>
C.	Statins	III.	<i>Streptococcus</i>
D.	Swiss Cheese	IV.	<i>Monascus</i>

नीचे दिए गए विकल्पों में से **सही** उत्तर चुनें।

1.

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

2.

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

3.

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

4.

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

Options

A

1

B

2

C

3

D

4

Question ID

13596

Question Type

MCQ

Question

Arrange the given steps involved in Southern blot hybridisation in the correct order of their occurrence.

A.

Digestion of DNA by restriction endonuclease.

B.

Isolation of DNA.

C.

Blotting of separated DNA fragments to synthetic membrane.

D.

Hybridization using labelled VNTR probe.

E.

Separation of DNA fragments by electrophoresis.

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

	1. A, B, C, D, E
	2. E, D, C, B, A
	3. B, A, C, D, E
	4. B, A, E, C, D
Options	
A	1
B	2
C	3
D	4

Question ID	13597
Question Type	MCQ
Question	Which of the following infectious disease are caused by a protozoan? A. Amoebiasis B. Elephantiasis C. Ascariasis D. Malaria E. Pneumonia Choose the correct answer from the options given below: 1. C and D Only 2. B and C Only 3. A and D Only 4. D and E Only
Options	
A	1
B	2
C	3
D	4

Question ID	13598
Question Type	MCQ
Question	Arrange the following in correct sequential representation of spermatogenesis. A. Primary spermatocytes B. Spermatozoa C. Spermatids D. Spermatogonia E. Secondary spermatocytes Choose the correct answer from the options given below: 1. D, A, E, C, B 2. A, B, D, E, C 3. C, D, E, B, A 4. D, B, E, C, A
Options	
A	1
B	2
C	3
D	4

Question ID	13599								
Question Type	MCQ								
	Match the LIST-I with LIST-II								
	<table><tr><th colspan="2">LIST-I (Species A) (Species B)</th><th colspan="2">LIST-II (Name of interaction)</th></tr><tr><td></td><td></td><td></td><td></td></tr></table>	LIST-I (Species A) (Species B)		LIST-II (Name of interaction)					
LIST-I (Species A) (Species B)		LIST-II (Name of interaction)							

Question

A.	+	+	I.	Competition
B.	—	—	II.	Predation
C.	+	—	III.	Amensalism
D.	—	0	IV.	Mutualism

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

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

Options

A	1
B	2
C	3
D	4