

Subject:	Biology/Biological Studies/Biotechnology/Biochemistry
Set Name:	V2_SET3
Code:	304
Exam Date:	18-04-2026
SLOT:	1

Question ID	267440
Question Type	MCQ
Question	What is Autogamy? 1. Pollination achieved within the same flower. 2. Pollination achieved by the pollen grains from the anther of another flower in the same plant. 3. Pollination achieved by pollen grains from the anther of different plant. 4. Pollination achieved by biotic agents.
Options	
A	1
B	2
C	3
D	4

Question ID	267441
Question Type	MCQ
Question	Which of the following is an example of parthenocarpic fruits? 1. Apple 2. Orange 3. Banana 4. Kiwi
Options	
A	1
B	2
C	3
D	4

Question ID	267442
Question Type	MCQ
Question	The characteristics of insect-pollinated flowers are: 1. Long, ribbon like pollen grains, with mucilagenious covering on stigma and pollen grains 2. Large, colourful flowers, with fragrance and rich in nector 3. Light, non sticky pollen grains, well exposed pollen grains, green coloured petals and sepals 4. Dull coloured petals and bright coloured sepals, strong foul odour, inconspicuous nectar and anthers hidden in pockets
Options	
A	1
B	2
C	3
D	4

Question ID	267445
Question Type	MCQ
Question	Finger like projections at the edges of infundibulum are called as : 1. Cervix 2. Fimbriae 3. Isthmus 4. Ampulla
Options	

A	1
B	2
C	3
D	4

Question ID	267448
Question Type	MCQ
Question	Infection or diseases which are transmitted through sexual intercourse are collectively called as : 1. HIV 2. STI 3. Hepatitis - B 4. AIDS
Options	
A	1
B	2
C	3
D	4

Question ID	267451
Question Type	MCQ
Question	Who coined the term linkage ? 1. Walter Sutton 2. Theodore Boveri 3. Gregor Mendel 4. Thomas Hunt Morgan
Options	
A	1
B	2
C	3
D	4

Question ID	267453
Question Type	MCQ
Question	A typical nucleosome contains _____ bp of DNA helix. 1. 400 bp 2. 600 bp 3. 300 bp 4. 200 bp
Options	
A	1
B	2
C	3
D	4

Question ID	267456
Question Type	MCQ
Question	The correct explanation of the term 'Saltation' as given by deVries is : 1. Presence of excess of sodium chloride in an environment 2. Absence of salt from the environment 3. Single step large mutations 4. Multi step small mutations
Options	
A	1

B	2
C	3
D	4

Question ID	267458
Question Type	MCQ
Question	Who proposed the embryological support for evolution ? 1. Ernst Heckel 2. Louis Pasteur 3. S. L. Miller 4. Charles Darwin
Options	
A	1
B	2
C	3
D	4

Question ID	267460
Question Type	MCQ
Question	Which antibodies are produced during allergy? 1. Ig G 2. Ig A 3. Ig M 4. Ig E
Options	
A	1
B	2
C	3
D	4

Question ID	267465
Question Type	MCQ
Question	The symbiotic association of fungi with plants is called as :- 1. Algae 2. <i>Rhizobium</i> 3. Mycorrhiza 4. Lichen
Options	
A	1
B	2
C	3
D	4

Question ID	267469
Question Type	MCQ
Question	The enzyme 'chitinase' is used to break open the cell and release DNA from : 1. Bacteria 2. Plant Cells 3. Fungus 4. Animal Cells
Options	
A	1

B	2
C	3
D	4

Question ID	267472
Question Type	MCQ
Question	Which technique can detect very low amounts of DNA? 1. ELISA 2. Recombinant DNA technology 3. PCR 4. Gene therapy
Options	
A	1
B	2
C	3
D	4

Question ID	267475
Question Type	MCQ
Question	In expanding population, the highest density would be observed in :- 1. Post-reproductive phase 2. Reproductive phase 3. Dormant phase 4. Pre-reproductive phase
Options	
A	1
B	2
C	3
D	4

Question ID	267476
Question Type	MCQ
Question	The detritus food chain (DFC) is initiated with : 1. Herbivores 2. Carnivores 3. Grass 4. Dead organic matter
Options	
A	1
B	2
C	3
D	4

Question ID	267478
Question Type	MCQ
Question	Which is generally an inverted pyramid? 1. Pyramid of biomass in sea 2. Pyramid of number in grass land 3. Pyramid of biomass in tropics 4. Pyramid of energy in grassland.
Options	
A	1
B	2

C	3
D	4

Question ID	267480
Question Type	MCQ
Question	The equation for species richness and area relationship on log scale is: 1. $\log C = \log S + Z \log A$ 2. $\log S = \log C + Z \log A$ 3. $\log A = \log S + Z \log C$ 4. $\log Z = \log S + A \log C$
Options	
A	1
B	2
C	3
D	4

Question ID	267481
Question Type	MCQ
Question	Amazon forest produces an estimated _____ of total oxygen in the earth's atmosphere. 1. 10% 2. 15% 3. 20% 4. 25%
Options	
A	1
B	2
C	3
D	4

Question ID	267483
Question Type	MCQ
Question	Which of the following is not an example of sacred grove? 1. Khasi and Jaintia Hills 2. Aravalli Hills 3. Almora Hills 4. Sarguja
Options	
A	1
B	2
C	3
D	4

Question ID	267487
Question Type	MCQ
Question	The steps involved in the Southern blotting hybridisation using radiolabelled VNTR as a probe are given below. Choose the option with their correct order of their occurrence. (A) Blotting of DNA (B) Hybridisation using labeled VNTR probe (C) Digestion of DNA by restriction endonuclease (D) Separation of DNA by electrophoresis

(E) Isolation of DNA

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

1. (E), (C), (D), (A), (B)
2. (A), (B), (D), (C), (E)
3. (E), (D), (A), (C), (B)
4. (B), (A), (C), (E), (D)

Options

A	1
B	2
C	3
D	4

Question ID 267488

Question Type MCQ

Choose the option with correct order of steps involved in a PCR reaction ?

- (A) Annealing
- (B) Amplification (x 30-40 Cycles)
- (C) Extention
- (D) Denaturation

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

1. (A), (B), (D), (C)
2. (D), (A), (C), (B)
3. (B), (A), (C), (D)
4. (D), (C), (B), (A)

Options

A	1
B	2
C	3
D	4

Question ID 267489

Question Type MCQ

Arrange the following phases of menstruation cycle in human female in correct sequence of their occurrence starting from the initiation of new cycle.

- (A) Proliferative Phase
- (B) Menstruation
- (C) Ovulation
- (D) Luteal phase

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

1. (B), (A), (C), (D)
2. (A), (B), (C), (D)
3. (D), (C), (B), (A)
4. (C), (D), (A), (B)

Options

A	1
B	2

C	3
D	4
Question ID	267490
Question Type	MCQ
Question	Based upon Griffith's transforming experiment, some cause and effect flowcharts are given below. Choose the option with all the correct flowcharts. (A) S strain → Inject into mice → Mice die (B) R strain → Inject into mice → Mice live (C) S strain → Inject into mice → Mice live (D) R strain → Inject into mice → Mice die (E) S strain (heat killed) → Inject into mice → Mice live Choose the correct answer from the options given below: 1. (A), (D) and (E) only 2. (A), (C) and (E) only 3. (A), (B), and (E) Only 4. (B), (C) and (D) only
Options	
A	1
B	2
C	3
D	4

Question ID	267491
Question Type	MCQ
Question	Which of the following option represents all the correct relation between the causative agent and the disease? (A) Malaria :- <i>Plasmodium</i> (B) Filariasis :- <i>Wuchereria</i> (C) Pneumonia :- <i>Microsporum</i> (D) Ringworms :- <i>Trichophyton</i> (E) Elephantiasis :- <i>Ascaris</i> Choose the correct answer from the options given below: 1. (A), (B), (C) and (D) only 2. (A), (B) and (D) only 3. (A), (B), and (C) Only 4. (A), (C) and (E) only
Options	
A	1
B	2
C	3
D	4

Question ID	267492
Question Type	MCQ
Question	Which of the following statements are correct about insulin? (A) Insulin is synthesised as a pro-hormone in humans

(A) Insulin is synthesised as a polypeptide in humans

(B) Mature insulin have only two polypeptide chains

(C) Insulin from pigs can be given orally to treat diabetes in humans

(D) Insulin used for diabetes was earlier extracted from pancreas of cattle & pigs

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

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

Options

A	1
B	2
C	3
D	4

Question ID 267493

Question Type MCQ

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

List-I	List-II
Assisted Reproductive Technologies (ART)	Definition
(A) ZIFT	(I) Transfer of ovum into fallopian tube
(B) GIFT	(II) Sperm is injected directly into ovum
(C) ICSI	(III) Sperm is introduced into vagina or uterus
(D) AI	(IV) Transfer of early embryo in fallopian tubes

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

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

Options

A	1
B	2
C	3
D	4

Question ID 267494

Question Type MCQ

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

List-I	List-II
Microbe	Use
(A) <i>Lactobacillus</i>	(I) Biocontrol Agent
(B) <i>Streptococcus</i>	(II) Antibiotic
(C) <i>Penicillium</i>	(III) Food Spoilage
(D) <i>Aspergillus</i>	(IV) Food Spoilage

Question

(B) <i>Propionibacterium sharmanii</i>	(II) Cheese
(C) <i>Saccharomyces cerevisiae</i>	(III) Curd
(D) <i>Trichoderma</i>	(IV) Bread

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

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

Options

A

1

B

2

C

3

D

4

Question ID

267495

Question Type

MCQ

Question

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

List-I	List-II
Population Interaction Species A/ Species B	Name of Interaction
(A) + / +	(I) Competition
(B) − / −	(II) Predation
(C) + / −	(III) Commensalism
(D) + / 0	(IV) Mutualism

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

Options

A

1

B

2

C

3

D

4