

FIRST MID TERM TEST - 2022

12 STD

BIOLOGY

1 2 3 0 5 7

Time : 1.30 Hrs

Marks : 35

BIO - BOTANY

PART - A

I. Choose the correct answer.

3 X 1 = 3

1. Cleavage polyembryony seen in
a) Bryophytes b) Orchids c) Pteridophytes d) Algae
2. Match :
1) Epiphyllous buds - a) Hydrilla
2) Helobial endosperm - b) Pollination by bats
3) Cheiroptherophily - c) Primulaceae
4) Hemianatropous - d) Bryophyllum
3. Test cross involves
a) crossing between two genotypes with recessive trait
b) crossing between two F1 hybrids
c) crossing the F1 hybrids with a double recessive genotype
d) crossing between two genotypes with dominant trait

PART - B

II Answer any two.

2 X 2 = 4

4. What is called Pollen kit?
5. What is microsporogenesis?
6. Polygenic inheritance - Explain.
7. What is meant by true breeding?

PART - C

III Answer any 2. Q.No. 9 is compulsory.

2 X 3 = 6

8. Draw and label the diagram of a Mature Embryo sac.
9. 'Endothecium is associated with dehiscence of Anther' justify the statement.
10. Write a note on back cross.

PART - D

IV Answer in detail.

1 X 5 = 5

11. a) Describe the L.S. structure of an ovule with diagram.

(OR)

- b) Explain Dominant Epistasis with example.

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BIO - ZOOLOGY**PART - I****Choose the correct answer.****2 X 1 = 2**

1. In Which mode of reproduction variations are seen?
 - a) Asexual
 - b) Parthenogenesis
 - c) Sexual
 - d) Both (a) and (b)
2. In this method of assisted reproductive technology fertilization occurs in 75-85% of the eggs injected with the sperms
 - a) Invitro fertilization
 - b) surrogacy
 - c) Intra cytoplasmic sperm injection
 - d) Intra uterine transfer

PART - II**Answer any two.****2 X 2 = 4**

3. What is regeneration? Mention its types.
4. Draw a neat labelled sketch of Human Ovum.
5. How will you classify breeding animals based on their breeding time?
6. Write briefly about chorionic villus sampling.

PART - III**Any two questions only. Q.No. 10 is a compulsory one.****2 X 3 = 6**

7. Differentiate Arrhenotoky from Thelytoky.
8. Write short notes on colostrum.
9. What is acrosomal reaction?
10. Amniocentesis - write a short note on it.

PART - IV**Answer any one of the following.****1 X 5 = 5**

11. a) Define parthenogenesis? Explain its types.

(OR)

- b) Explain the different types of natural birth control methods.

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