FIRST MID TERM TEST - 2022

12 - STD

BIOLOCA

Time: 1.30 Hrs

Marks: 35

BIO - BOTANY

PART - A

Chanse the correct answer. T.

- Cleavage polyembryony seen in
 - a) Bryophytes
- b) Orchids
- c) Pteridophytes d) Algae

and the plan of the party

- Match : 2.
 - 1) Epiphyllous buds
- a) Hydrilla
- 2) Helobial endosperm
- b) Pollination by bats
- 3) Cheiropterophily
- c) Primulaceae

4) Hemianatropous

d) Bryophyllum

- Test cross involves 3.
 - 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

Answer any two. II

 $2 \times 2 = 4$

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

PART - C

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

 $2 \times 3 = 6$

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

PART - D

IV Answer in detail.

 $1 \times 5 = 5$

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

(OR)

b) Explain Dominant Epistasis with example.

BIO - ZOOLOGY

PART - I

Choose the correct answer.

 $2 \times 1 = 2$

- 1. In Which mode of reproduction variations are seen?
 - a) Asexual

b) Parthenogenesis

c) Saxual

- d) Both (a) and (b)
- 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.

 $2 \times 2 = 4$

- 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?
- Writs briefly about chorionic villus sampling.

PART - III

Any two questions only. Q.No. 10 is a compulsory one.

 $2 \times 3 = 6$

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

PART - IV

Answer any one of the following.

 $1 \times 5 = 5$

a) Define parthenogenesis? Explain its types.

(OR)

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

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