

Class : 12Register
Number

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UNIT TEST - 1, JULY - 2024

Time Allowed : 1.30 Hours]

BIOLOGY

[Max. Marks : 35

Part - I (Bio-Botany) (Marks : 18)**Section - I****I. Choose the correct answer:****3X1=3**

- In majority of plants pollen is liberated at
(a) 1 celled stage (b) 2 celled stage (c) 3 celled stage (d) 4 celled stage
- Identify the correctly matched pair
(a) Tuber - Allium Cepa
(b) Sucker - Pistia
(c) Rhizome - Musa
(d) Stolon - Zingiber
- Select the period for Mendel's Hybridization experiments.
(a) 1856 - 1863 (b) 1850 - 1870 (c) 1857 - 1869 (d) 1870 - 1877

SECTION - II**II. Answer any two of the following.****2x2=4**

- A detached leaf of Bryophyllum produces new plants. How?
- Draw and label the parts of the Dicot mature Embryo.
- What is Back Cross.
- Define Genetics.

SECTION - III**III. Answer any two questions. Question No. 10 is compulsory****2x3=6**

- Differentiate Continuous Variation with Discontinuous Variation. (Any Three)
- List out the Functions of Tapetum.
- "The Endosperm of Angiosperms is different from Gymnosperms". Do you agree. Justify your answer.

SECTION - IV**IV. Answer the following questions.****1x5=5**

- a) With a suitable diagram Explain the Structure of an Ovule.

(OR)

- b) Explain Polygenic Inheritance with an example.

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PART – II (BIO - ZOOLOGY) (Max. Marks: 17)

SECTION – I

I. Choose the most appropriate answer:

2x1=2

1. **Assertion** : In bee society, all the members are diploid except drones.

Reason : Drones are produced by Parthenogenesis.

(a) Both A and R are true and R is correct explanation for A

(b) Both A and R are true but R is not the correct explanation for A

(c) A is true but R is false

(d) Both A and R are false

2. The Foetal membrane that forms the basis of the Umbilical cord is -----

(a) Allantois

(b) Amnion

(c) Chorion

(d) Yolk sac

SECTION - II

II. Answer any two questions

2x2=4

3. A simple cell division could be a Mode a Reproduction in some organisms - Justify.

4. How is Polyspermy prevented in Humans?

5. Differentiate between Foeticide and Female Infanticide.

SECTION - III

III. Answer any two questions. Q. No. 8 is compulsory.

2x3=6

6. Write a note on Amniocentesis.

7. Placenta is an Endocrine Gland - Justify.

8. Write a note on Colostrum.

SECTION - IV

IV. Answer the Following.

1x5=5

9. a) Describe events in Fertilization of Human Ovum. (Flow Chart)

(OR)

b) Write an account on the Intra Uterine Devices. (IUD's)