

Class : 12Register
Number**FIRST MID TERM TEST - 2024**

Time Allowed : 1.30 Hours]

BIOLOGY

[Max. Marks : 50

Part - I (Bio-Botany) (Marks : 25)**Section - 1****I. Answer the following questions****5X1=5**

- Microspore mother cell divide..... to form haploid microspore.
 - Amitosis
 - Meiosis
 - Mitosis
 - All of the above
- Select the correctly matched pair
 - Reproduction by leaf - Moringa
 - Budding - Yeast
 - Rhizome - Bryophyllum
 - Cutting - zingiber
- Fruit-colour in squash is an example of
 - Recessive epistasis
 - Complementary genes
 - Dominant epistasis
 - Incomplete dominance
- 200 Centi Morgan is equal to.....Morgan
 - 0.2
 - 0.002
 - 2
 - 200
- If the haploid number in a cell is 7 The double tetrasomic and monosomic number will be.
 - 12 and 16
 - 16 and 15
 - 17 and 14
 - 18 and 13

Section - 2**II. Answer any Three questions:****3×2=6**

- List out any two strategy adopted by bisexual flowers to prevent self pollination.
- What is parthenocarpy? give an example.
- What is test-cross?
- Write the chemical mutagens.
- Write a short notes on sharbati sonora.

Section - 3**III. Answer any three questions:****3×3=9**

- Write the Functions of Endosperm.
- What is polyembryony? how it can commercially exploited?
- Differences between Incomplete Dominance Codominance.
- Draw the diagram different types Aneuploidy.
- What is Genetic map? Write its Uses

Section - 4**IV. Answer any one of the following questions.****1×5=5**

- Explain the structure of mature Anther.
- Explain Carl correns experiment with an example.
- Mention the name of man made Cereal. How it is formed.

V/12/Bio/1

PART – II (BIO-ZOOLOGY) (Max. Marks: 25)**SECTION – 1****I. Answer all the questions:****5x1=5**

1. In which type of parthenogenesis are only Females produced?
 a) Arrhenotoly b) Thelytoky c) Amphitoky d) Both a and b
2. The Androgen Binding Protein (ABP) is produced by
a) Leydig cells b) Hypothalamus c) Sertoli cells d) Pituitary gland
3. A contraceptive pill prevents ovulation by
a) Blocking fallopian Tube b) Inhibiting release of FSH and LH
c) Stimulating release of FSH and LH
d) Causing immediate degeneration of released ovum
4. Down's syndrome is a genetic disorder which is caused by the presence of an extra chromosome number
a) 20 b) 21 c) 4 d) 23
5. Thalassaemia is an ----- disorder.
 a) Autosomal dominant b) Allosomal recessive
c) Autosomal recessive d) Allsomal dominant

Section - 2**3X2=6****II. Answer any 3 Questions :**

6. What is Composition of Semen?
7. How are STDs transmitted?
8. What is Lyonisation?
9. Notes on Pedigree.
10. What is C section.

Section - 3**3X3=9****III. Answer any 3 Questions :**

11. Write a short note on Apolysis.
12. How is Polyspermy avoided in Humans.
13. What is Haplodiploidy.
14. Why Female reproductive system is much complex then male reproductive system.
15. Differentiate Foeticide and Infanticide.

Section - 4**1x5=5****IV. Answer the Questions :**

16. a). Explain the types of Syngamy.

(OR)

- b) Tabulate Bacterial STI.

V/ 12 / Bio / 2