## Holidays' Homework, 2024-25

## Science (Biology)

#### Class XII

## **Assignment-A**

#### Section- A

Write the following in Biology notebook-

Briefly describe-

- 1. Endosperm
- 2. MTP
- 3. Point Mutation
- 4. Gene and allele
- 5. Colostrum
- 6. Oogenesis
- 7. Geitonogamy
- 8. Emasculation
- 9. Leydig cells
- 10. Law of dominance

#### Section-B

- 11. Differentiate between
  - (a) hypocotyl and epicotyls
- (b) Coleoptile & coleorhiza
- (c) Perisperm & pericarp
- (d) Integument and testa
- 12. Amniocentesis and its significance.
- 13. Write the functions of testis, ovary and seminal plasm.
- 14. Define & design a test cross.
- 15. Explain the term with example-
  - (a) Co-dominance

(b) Incomplete dominance.

#### Section-c

- 16. Differentiate between autogamy and xenogamy.
- 17 How is oogenesis different frons spermatogenesis? Justify.
- 18. Explain different phases of menstrual cycle.
- 19. Explain process of double fertilisation with diagram.
- 20. Explain different types of IUDs. Why is hormone releasing IUDs considered as good contraceptive to space children?

### **Assignment-B**

Make a project anyone of the given topics.

- i. Pollination and it's types.
- ii. Embryogenesis.
- iii. Fertilization and post-fertilization events.
- iv. Human Reproductive systems.
- v. Fertilization and Implantation in humans.
- vi. Foetus development.
- vii. MTP
- viii. Mendelian disorders etc.

# Assignment- C.

Write these experiments with well-labelled diagrams in your practical notebook –

- 1. To study t.s. of mammalian testis and ovary using permanent slide.
- 2. To study controlled pollination, emasculation, tagging and bagging.
- 3. Prepare a temporary mount to observe pollen germination.

Make a model on anyone of the following topics-

- Young anther and I.s. of pistil.
- Male reproductive system
- Female reproductive system
- Human sperm and ovary
- Spermatogenesis and oogenesis
- menstrual cycle

Note: Also learn all of the above questions.