HSE2KROXI

9319-B

BIOLOGY (Botany)

(Long Answer Type Questions)

1. What is Semiconservative DNA Replication? Describe the mechanism of the same with suitable diagrams.

Or

Define multiple allele with the help of suitable example. Explain the phenomenon of multiple allelism.

2. What are Negative Interactions? Describe various negative interactions found among organisms.

Or

Give an account of energy flow in an ecosystem.

(Short Answer Type Questions)

- 3. Write short notes on:
- (i) Hydrophilly (ii) Entomophilly (iii) Anemophilly.
- 4. Enunciate Mendel's law of segregation with the help of Monohybrid cross
- 5. Write explanatory note on single cell protein (SCP).
- 6. What is Biodiversity? Why has it become important recently?

(Very Short Type Questions)

- 7. Re-arrange the following in order of their position from outside in a carpel:
- (i) Nucellus (ii) Embryo sac (iii) Ovary (iv) integuments
- 8. Name the water fern that is an excellent biofertilizer for rice cultivation. What helps the fern to do so ?
- 9 Why would biopiracy affect India most?

10. What are Threatened Species? Name their three types in order of the danger of
extinction they face,
(Objective Type Questions)
11. Pick the odd one out:
(a) Chalazogamy (b) Porogamy (c) Mesogamy (d) Allogamy
12. A hyaline bisexual and self-fertilized flower that does not open at all is chasmogamous. (True/False)
13. Preserving seeds of plants, vegetatively propagating plants, cells, sperms, ova at -196°C (a temperature of liquid nitrogen) is called (Give one word)
14. Define the term biome.
15. The phenotype ratio obtained by Mendel in his famous monohybrid cross in F ₂

generation was