

HSE2KROXI

9319-C

## **BIOLOGY**

(Botany)

(Long Answer Type Questions)

1. Describe the structure of DNA as proposed by Watson and Crick.

Or

A snapdragon plant homozygous for red flowers when crossed with a white flowered plant of the same species produced pink flowers in  $F_1$  generation.

(a) What is this phenotypic expression called ?

(b) Work out the cross to show  $F_2$  generation when  $F_1$  was self pollinated. Give the phenotypic ratios of  $F_2$  generation.

2. Give an account of ecological succession on bare rock.

Or

What kind of threats to the biodiversity may lead to its loss?

(Short Answer Type Questions)

3. Describe the structure of a typical monosporic embryo sac found in flowering plants.

4. Write a note on Central Dogma of molecular biology.

5. What is Biofortification ?

6. How do you distinguish between ectoparasite and endoparasite ?

(Very Short Answer Type Questions)

7. What is Micropropagation?

8. What is BOD ? What does it mean if a water sample has more BOD?

9. What do you mean by Cloning?

10. Distinguish between Habitat and Ecological Niche.

(Objective Type Questions)

11. Define Porogamy.

12. Parthenogenesis is the presence of more than one embryo in the seed. (True/False)

13. During DNA replication, one new strand is formed in continuous stretch in the 5'-3' direction. It is called ..... strand. Other strand formed from okazaki fragments is termed is ..... Strand.

14. The number of young ones produced by an organism during its life time is called..... (Give one word)

15. Define Ecosystem.