

Total No. of Questions: 151

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HS2PKJ13 69019-P BOTANY

(Biology)

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Time: 11/2 Hours + 15 Minutes extra to read the question paper]

[Maximum Marks: 35

(Long Answer Type Questions)

1. What is a Monohybrid Cross ? State and explain Mendel's law of segregation. Why this law is universally accepted ?

Or

What is DNA replication? Describe semiconservative replication of DNA (with diagram).

What is Conservation ? Why is there a need for conservation of biodiversity ?-

Or

What are the sources of Water pollution? Suggest some steps to be taken to control water-pollution.

(Short Answer Type Questions)

- 3. Define Pollination. What are outbreeding devices which promote cross pollination?
- 1. How does a test cross differ from a back cross ? Make Punnet Square.
 - What are the applications of Plant Breeding?

Explain the flow of energy in an Ecosystem.

(Very Short Answer Type Questions)

- 7. What is Vegetative Propagation ? Write its two merits.
- 8. Write short note on Biofortification.
- Differentiate between Natality and Mortality.
- 10. What are effects of Deforestation ?

(Objective Type Questions)

- 11. Name the part of pistil which receive pollen grains.
- 12. In angiosperms embryosac represents:
 - (a) Female gametophyte
 - (b) Sporophyte
 - (c) Male gametophye : 13
 - (d) All of these

What is initiation codon?

Biogas is produced by Methanogens.

Expand BOD, COD.

(True/False)