

Total No. of Questions : 15]

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HSEIKPJXII

34019-A

BOTANY

(Biology)

Time : 1½ Hours + 15 Minutes extra to read the question paper]

[Maximum Marks: 35

(Long Answer Type Questions)

1. Describe the development of female gametophyte with the help of suitable diagrams:

Or

(a) Draw a labelled diagram of an albuminous seed (L.S.).

(b) How are seeds advantages to flowering plants ? 5

2. Briefly describe the chromosomal basis of inheritance.

Or

What is 'Semi-conservative' DNA replication ? How was it experimentally proved and by whom ? 5

(Short Answer Type Questions)

What are the essential requirements of the genetic material ? 3

Write a note on Biopiracy. 3

Describe the various applications of Tissue Culture in brief. 3

Give an account of Ecological Succession. 3

(2)

(Very Short Answer Type Questions)

7. What is double fertilisation:?
8. Explain predation with example.
9. Why a need is felt to conserve biodiversity ?
10. List the effect of Ozone depletion.

(Objective Type Questions)

11. What is 'Central Dogma' ?
12. Removal of Anthers from a bisexual flower to make it female flower (Give the technical one word)
13. Flow of energy in an ecosystem is unidirectional.

(True/False)

14. in biology means disappearance of species from the world. (Fill in the blank)

15. Green house effect is due to :

- | | |
|-------------------|-------------------|
| (a) SO_2 | (b) CO_2 |
| (c) CO | (d) O_2 |