



B.Sc./4th Sem (H)/BOT/24(CBCS)

2024

4th Semester Examination

BOTANY (Honours)

Paper : C 9-T

(Ecology and Phytogeography)

[CBCS]

Full Marks : 40

Time : Two Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers

in their own words as far as practicable.

Group - A

Answer any *five* questions : 2×5=10

1. What do you mean by hygroscopic water?
2. Which of the ecological pyramid is inverted and why?
3. What is parapatric speciation? Why it named so?
4. What is 'standing crop'?
5. Name any unidirectional model of energy flow.
6. Why denitrification process is a key step in Nitrogen cycle?

P.T.O.

(2)

7. What do you know about 'keystone' species? Give an example.
8. What is commensalism? Give an example.

Group - B

Answer any *four* questions : $5 \times 4 = 20$

9. Briefly describe phosphorus cycle with diagram. Mention two importance of phosphorus cycle.
10. State the role and types of physical and chemical factors of soil.
11. Describe the ecotone zone of desert and sea ecosystem.
12. State a secondary succession with proper example.
13. With proper example describe the process of a sympatric speciation with example.
14. What is endemism describe with an endemic area?

Group - C

Answer any *one* question : $10 \times 1 = 10$

15. Describe a tropical biome with it's proper features. Differ primary and secondary succession. $8+2$
16. Define phytogeography. Who first coined this term?

$1+1+6+2$
