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B.Sc./4th Sem (H)/BOT/23(CBCS)

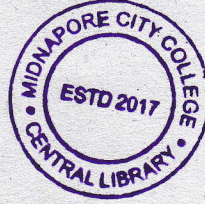
2023

4th Semester Examination
BOTANY (Honours)

Paper : C 9-T

(Plant 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* of the following questions :

2×5=10

1. What are the autogenic and allogenic succession?
2. Write the two important adaptations of plants against fire.
3. What are the allopatric and sympatric speciation?
4. What is meant by biogeochemical cycle?
5. What is food pyramid? When is it inverted?
6. Write the differences between habitat and niche.

P.T.O.



7. What are the ecotone and edge effect?

(2)

8. Define commensalism. Cite an example.

Group - B

Answer any *four* of the following questions :

5×4=20

9. Briefly describe the process of soil formation. Discuss the physical composition of soil. 3+2=5

10. Briefly describe the composition of soil. Discuss the role of climate on soil development. 2+3=5

11. Write a brief note on different ecological adaptations of hydrophytes. 5

12. What are food webs? Explain the different models of energy flow in an ecosystem. 2+3=5

13. What is population dynamics? Write the characteristics of a stable population. How IVI is calculated in a vegetation? 1+2+2=5

14. Briefly describe the major terrestrial biomes. 5

Group - C

Answer any *one* of the following questions :

10×1=10

15. What is plant succession? Explain the process of plant succession. Write about the different types of plant succession. What is climax community? 2+3+3+2=10

(3)

16. What is endemism? Briefly illustrate the theory of endemism. Name two endemic plant species from India. Briefly discuss about different phylogeographical regions of India. 2+3+2+3=10

