

MAY 2015

**P/ID 40226/PBTF**

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Time : Three hours

Maximum : 100 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions each in 50 words.

Write short notes :

1. Autecology
2. Biome
3. Benthos
4. Species diversity
5. Troposphere
6. Gross production
7. Ecotone
8. Food chain
9. Endangered plants
10. UNEP.

PART B — (5 × 6 = 30 marks)

Answer ALL questions each in 250 words.

11. (a) Describe the components of Ecosystem.

Or

- (b) Bring out the basic principles of ecology.

12. (a) Explain the phytosociological methods of plant community study.

Or

- (b) What is a Biological spectrum? Explain.

13. (a) Describe the quantitative characters of plant community.

Or

- (b) Describe the energy flow in an aquatic ecosystem.

14. (a) What are the characters of grass land biome?

Or

- (b) Explain the population density and structure of plant community.

15. (a) Briefly mention the role of IUCN.

Or

- (b) Describe the theory of gene banking preservation.

PART C — (5 × 10 = 50 marks)

Answer ALL questions each in 500 words.

16. (a) Write an essay on qualitative characters of plant community.

Or

- (b) Write an essay on migration, ecesis and aggregation of plant community.

17. (a) Describe the tundra ecosystem of the world.

Or

- (b) Give an account on soil classifications.

18. (a) Write an essay on water pollution and its control.

Or

- (b) Discuss – Wind and biomass based energy.

19. (a) Give an account on measurement of biological diversity.

Or

- (b) Write a detailed account on *ex situ* conservation method.

20. (a) Explain in detail the continental drift and plant distribution.

Or

- (b) Give an account of Nitrogen cycling and its effects on plants.
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