MAY 2014 **P/ID 40226/PBTF**

Time : Three hours Maximum : 100 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

All questions carry equal marks.

Each answer should not exceed 50 words.

1. Endemism
2. Alexander von Humboldt
3. Ecesis
4. Ecotone
5. Red Data Book
6. Biosphere Reserve
7. Geothermal energy
8. Bottleneck species
9. MAB
10. IPR.

PART B — (5 × 6 = 30 marks)

Answer ALL questions.

All questions carry equal marks.

Each answer should not exceed 250 words.

11. (a) Explain the Homeostasis in detail.

Or

(b) Explain the similarity indices.

12. (a) Write a brief account of concept of Ecological niche.

Or

(b) Comment on tropical ecosystems.

13. (a) Enumerate the biogeocycle of nitrogen.

Or

(b) What is meant by over population? Explain the measures of its control.

14. (a) Critically evaluate the various control measures to prevent water pollution.

Or

(b) Briefly explain the IUCN Categories.

15. (a) Explain the age-area hypothesis in detail.

Or

(b) Comment on Genebanks at global level.

PART C — (5 × 10 = 50 marks)

Answer ALL questions.

All questions carry equal marks.

Each answer should not exceed 500 words.

16. (a) Give a account on Structure and functions of ecosystem.

Or

(b) Explain the laws of thermodynamics in detail.

17. (a) Write an essay on major biomes of the world.

Or

(b) Write an essay on role of Nitrogen cycle in ecosystem maintenance.

18. (a) Write an essay on non-conventional energy sources.

Or

(b) Write a detailed account on conservation measures on biodiversity.

19. (a) What are the consequences of urbanization in terms of environmental pollution?

Or

(b) Write an essay on wildlife preservation act (1972).

20. (a) Explain theories of continental shift.

Or

(b) Explain the Remote sensing and its applications.

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