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Register Number:

Name of the Candidate:

5307

B.Sc. DEGREE EXAMINATION, 2013

(ZOOLOGY)

(THIRD YEAR)

(PART-III)

750. ECOLOGY AND EVOLUTION

December]

[Time : 3 Hours

Maximum : 100 Marks

SECTION-A

Answer any TEN questions

Each answer should not exceed FIFTY words

(10×2=20)

Explain the following:

1. Hydrosphere.
2. Population.
3. Food Chain.
4. Food Web.
5. Aquatic Adaptations.
6. Cave Adaptations.
7. Polyploidy in evolution.
8. Use and disuse theory.
9. Genetic drift.
10. Neanderthal man.
11. Lithosphere.
12. Energy Flow.
13. Passive Flight.
14. Hybridization.
15. Mimicry.

SECTION-B

Answer ALL questions

(5×7=35)

16. a) Explain different types of soil and its characteristics features.

(OR)

- b) Give an account on biotic community.

17. a) Describe the structure and functions of forest ecosystem.
(OR)
b) Describe different types of ecological pyramid.
18. a) Give an account on adaptations of desert animals.
(OR)
b) Enlist the adaptive characteristics of fossorial and cursorial animals.
19. a) Describe the trends in evolution.
(OR)
b) Explain Darwinism.
20. a) Define polymorphism. Describe the different types of polymorphism.
(OR)
b) Discuss on cultural evolution of man.

SECTION-C

Answer any THREE questions

(3×15=45)

21. Write an account on the following:
i) Liebig's law of limiting factors ii) Shelford's law of tolerance.
iii) Biotic community.
22. Describe the structure and functions of an ecosystem.
23. Write an essay on flight adaptation.
24. Enumerate the anatomical, physiological and embryological evidences for evolution.
25. Discuss on Hardy Weinberg equilibrium and factors influencing it.
