

E 3222

(Pages : 2)

Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, OCTOBER 2016

Fifth Semester

Core Course—EVOLUTION, ZOOGEOGRAPHY AND ETHOLOGY

(Common for B.Sc. Zoology Model I, Model II, B.Sc. Industrial Microbiology and Zoology)

[2013 Admission onwards]

Time : Three Hours

Maximum : 60 Marks

Part A

Answer all questions.

Each question carries 1 mark.

1. Define Species.
2. What is zoogeographical realm ?
3. Define Fossil dating.
4. What is the scope of Ethology ?
5. What is punctuated equilibrium ?
6. What is founder effect ?
7. What are Darwin's finches ?
8. Define fission track dating.

(8 × 1 = 8)

Part B

Answer any six questions.

Each question carries 2 marks.

9. Differentiate between Microevolution and Macroevolution.
10. What is the theory of Biogenetics ?
11. Define survival of fittest.
12. What is the role of isolation in speciation ?
13. Present an example of mechanical isolation.
14. Give two examples of Disuse Theory.
15. What are coacervates ?
16. What is Megaevolution ?
17. What are the types of social behaviour in man ?
18. Write down the major divisions of Geographical Time Scale.

(6 × 2 = 12)

Turn over

Part C

*Answer any four questions.
Each question carries 4 marks.*

19. Briefly explain Neo-Lamarckism.
20. Explain the factors influencing speciation.
21. Briefly explain adaptive radiation in animals.
22. Write down the evolutionary significance of human behaviour.
23. What are the types of isolating mechanism?
24. State and explain Hardy Weinberg law.

(4 × 4 = 16)

Part D

*Answer any two questions.
Each question carries 12 marks.*

25. Briefly explain Neo-Darwinism.
26. Write an essay on learning and imprinting with suitable examples.
27. Describe the geographical conditions and characters of fauna of Australian Region.
28. Write an essay on the strengths and dangers of Darwinian approach to Human Behaviour.

(2 × 12 = 24)