

E 7476

(Pages : 2)

Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MAY 2019

Second Semester

Core Course VI—EVOLUTIONARY BIOLOGY AND ENVIRONMENTAL SCIENCE

(2013—2016 Admissions)

Time : Three Hours

Maximum Marks : 80

Part A (Short Answer Questions)

Answer all questions.

1 mark each.

1. What are herbivores ?
2. What are effluents ?
3. Define 'denitrification'.
4. Write about importance of decomposers.
5. Explain parasitism.
6. What are lichens ?
7. What is biological magnification ?
8. Write about 'smog'.
9. Define 'habitat'.
10. What is eutrophication ?

(10 × 1 = 10)

Part B (Brief Answer Questions)

Answer any eight questions.

2 marks each

11. Explain primary productivity.
12. What is biotic potential?
13. Write a note on edaphic factors.
14. What is negative interaction?
15. Write an account on food web.
16. What is acid rain ? Comment on the causes.
17. Comment on natural selection.

Turn over

18. What is a microenvironment ?
19. Mention the role of mutation in evolution.
20. Write about impact of soil pollution.
21. Explain pyramid of biomass.
22. Give an account on Law of limiting factors.

(8 × 2 = 16)

Part C (Short Essay Type Questions)

*Answer any six questions.
4 marks each.*

23. Give an account on evidences of evolution.
24. Differentiate macro and microevolution.
25. What is nuclear pollution ? Write about measures to avoid nuclear pollution.
26. Explain Miller Urey experiment.
27. Explain carbon cycle.
28. Write an account on speciation.
29. Write about water pollution and its control measures.
30. Give an account on energy flow in ecosystem.
31. Explain the impact of global warming.

(6 × 4 = 24)

Part D (Long Essays)

*Answer any two questions.
15 marks each.*

32. Give an account on origin of life and theories of evolution.
33. Explain nitrogen fixation. How it affect the nitrogen cycle ?
34. Write about biotic and abiotic components of an ecosystem.
35. Explain causes, effects and control measures of air pollution.

(2 × 15 = 30)