

SIXTH SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION, MARCH 2021

Botany

BOT 6B 12—ENVIRONMENTAL SCIENCE

Time : Three Hours

Maximum : 80 Marks

Section A

*Answer all questions.**Each question carries 1 mark.*

1. Where you can find temperate forests in India ?
2. Name the article specifying environmental protection is a fundamental duty of the citizen of India.
3. Name the gas which causes the ozone depletion.
4. What is the name of condition in which the heating of earth's atmosphere occur due to trapped radiation ?
5. What are 3R in waste management ?
6. In which year Prevention and control of pollution act was enacted ?
7. Expand UNEP.
8. Name the succession initiating on aquatic environment.
9. What are Halophytes ?
10. Name the National Park associated with Rhinoceros in India.

(10 × 1 = 10 marks)

Section B (Short Answer Questions)

*Answer at least five questions.**Each question carries 4 marks.**All questions can be attended.**Overall Ceiling 20.*

11. Explain how acid rains are formed.
12. What is Red Data Book ?
13. What are the different methods adopted by ecologists for the quantitative analysis of plant community ?
14. What are the different stages of ecological succession ?

Turn over

15. What is food chain ?
16. What are the different levels of biodiversity ?
17. Write any four control measures of water pollution.
18. What is biogeochemical cycling of nitrogen or nitrogen cycle ?
19. What are the different categories of estuarine ecosystem on hydrographic basis ?
20. What is net primary production ?

$(5 \times 4 = 20 \text{ m})$

Section C (Short Essay)

Answer at least five questions.

Each question carries 7 marks.

All questions can be attended.

Overall Ceiling 35.

21. Discuss the impacts of global warming. What are the measures to check global warming ?
22. Describe noise pollution. What are the effects of noise pollution ?
23. "India is known as megadiversity nation". Justify the statement.
24. Write short notes on endangered and endemic plant species in India .
25. Discuss different types of ecological pyramids.
26. Describe the structure of an ecosystem.
27. What are the various sources of soil pollution ? Briefly describe how soil pollution is controlled
28. Discuss the role of different organisations in conserving the biodiversity in global, national local level.

$(5 \times 7 = 35 \text{ m})$

Section D (Essay)

Answer at least one question.

Each question carries 15 marks.

29. Explain the values and importance of biodiversity. Give an account of different types of values
30. Write an essay on the major ecosystem in nature.
31. Discuss in detail the environmental legislation in India. Discuss the role of an individual prevention and abatement of pollution.

$(1 \times 15 = 15 \text{ m})$