

B. Sc. DEGREE END SEMESTER EXAMINATION OCT. 2020: JANUARY 2021**SEMESTER – 5: BOTANY (CORE COURSE)****COURSE: 15U5CRBOT06, ENVIRONMENTAL SCIENCE AND ECOTOURISM**

(Common for Regular 2018 admission and Improvement / Supplementary 2017/2016/2015 admissions)

Time: Three Hours

Max. Marks: 60

PART A**I. Answer ALL questions; each question carries 1 mark. Write short notes on the following**

1. Ecological footprints
2. Ecesis
3. Ecological niche
4. Natality
5. Heliophytes
6. Minamata disease
7. Acid rain
8. Red Data Book

(1 x 8 = 8)

PART B**II. Answer ANY SIX questions; each question carries 2 marks.**

9. Write a note on KFRI and its activities.
10. What are renewable and nonrenewable resources with example?
11. Differentiate Ecologically Fragile Land and Ecological sensitive area.
12. Explain *El-nino* and *La-nina*.
13. Explain different trophic levels in an ecosystem.
14. What is topography?
15. What are the different adaptations of *Hydrilla*?
16. What is blue baby syndrome?
17. Sources and impacts of Nuclear hazards.
18. Briefly give an account on Wildlife (Protection) Act, 1972.

(2 x 6 = 12)

PART C**III. Answer ANY FOUR questions; each question carries 4 marks.**

19. Role of NGOs in biological conservation.
20. Explain different hotspots of India with their key features.
21. Explain *in situ* conservation methods.
22. Write notes on NEERI and Chipko movement.
23. What is Biogeochemical cycle? Explain Nitrogen cycle.
24. Ecotourism centers in Kerala.

(4 x 4 = 16)

PART D

IV. Answer ANY TWO questions; each question carries 12 marks.

25. Explain population ecology and what are the factors effecting population ecology?

OR

26. Explain the various environmental laws in India.

27. Describe the morphological and anatomical adaptations of Hydrophytes

OR

28. Explain in detail the relevance, scope, positive and negative impacts of ecotourism and explain what are the different ecotourism resources.

(12 x 2 = 24)
