SIXTH SEMESTER B.A./B.Sc. DEGREE EXAMINATION, MARCH 2020

(CUCBCSS—UG)

Botany

BOT 6B 12—ENVIRONMENTAL SCIENCE

Time : Three Hours   Maximum : 80 Marks

Section A

Answer all questions.
Each question carries 1 mark.

1. Define food web.

2. Name an endemic plant in Kerala.

3. Expand IUCN.

4. Which group of plants show vivipary ?

5. Mention any two water pollutants.

6. Name the disease caused by the mercury pollution.

7. Define ecological niche.

8. What is the percentage of CO_2 in the atmosphere ?

9. Name a nitrogen fixing bacteria.

10. Give an example for endangered species.

(10 × 1 = 10 marks)

Section B

Answer all questions.
Each question carries 2 marks.

11. What is velamen tissue ?

12. Define ex situ conservation.

13. Differentiate between primary and secondary productivity.

14. What are ecological pyramids ?

15. Mention the major sources of water pollution.

16. Describe species-area-curve method.

17. Explain natality and mortality.

18. What is biomagnification ?

19. What are pneumatophores ?

20. Explain autogenic succession.

(10 × 2 = 20 marks)

Section C

Answer any six questions.
Each question carries 5 marks.

21. What are ecological indicators ? Explain their role in environment monitoring.

22. What are the major sources of air pollution ?

23. Differentiate between keystone and flagship species.

24. Write a note on El nino.

25. Explain global warming.

26. Write a note on thermal pollution.

27. Explain the quadrat and transect method of sampling techniques in plant community studies.

28. Describe the various stages involved in xerosere.

(6 × 5 = 30 marks)

Section D

Answer any two questions.
Each question carries 10 marks.

29. What is biogeochemical cycle ? Describe Nitrogen cycle in detail.

30. Explain the strategies of solid waste management

31. Describe the morphological, anatomical and physiological adaptations of hydrophytes.

(2 × 10 = 20 marks)