

**C 60080**

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Name.....

Reg. No.....

**SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH 2019**

(CUCBCSS)

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 chain.
2. Name an obligate stem parasite.
3. Expand IUCN.
4. Which group of plants have root pockets ?
5. Mention any *two* water pollutants.
6. Name two bird sanctuaries in Kerala.
7. Define ecological niche.
8. Which ecological pyramid is always upright ?
9. Which is the gas that affects ozone umbrella ?
10. Give an example for endemic species.

(10 × 1 = 10 marks)

**Section B**

*Answer all questions.*

*Each question carries 2 marks.*

11. Explain biomagnification.
12. Describe BOD.
13. Differentiate between primary and secondary productivity.
14. What are ecological indicators ?

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15. Mention the major sources of water pollution.
16. Describe species-area-curve method.
17. Explain allogenic succession.
18. What is Red Data Book ?
19. What is velamen tissue ?
20. Describe the *in situ* method of conservation strategy.

(10 × 2 = 20 marks)

### Section C

*Answer any six questions.  
Each question carries 5 marks.*

21. Write a note on estuarine ecosystem.
22. What are the major sources of air pollution ?
23. Differentiate between keystone and flagship species.
24. Write a note on global warming.
25. Comment on biogeochemical cycle with an example.
26. Write a note on thermal pollution.
27. Explain the quadrat and transect method of sampling techniques in plant community studies.
28. Bring out the anatomical adaptations of xerophytes.

(6 × 5 = 30 marks)

### Section D

*Answer any two questions.  
Each question carries 10 marks*

29. What is plant succession ? Describe the various stages involved in hydrosere.
30. Explain the strategies of solid waste management.
31. Describe the morphological, anatomical and physiological adaptations of halophytes.

(2 × 10 = 20 marks)