

**18U515**

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Name: .....

Reg. No.....

**FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2020**

(CUCBCSS-UG)

(Regular/Supplementary/Improvement)

**CC15U ZO5 B06 - ENVIRONMENTAL BIOLOGY, WILDLIFE CONSERVATION  
AND TOXICOLOGY**

(Zoology - Core Course)

(2015 Admission onwards)

Time: Three Hours

Maximum: 80 Marks

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

1. The barrier trap used to trap diurnal flying insects.
2. Name two hotspots in India.
3. What is alpha diversity?
4. What is botulism?
5. The gradual process by which ecosystem changes and develops over time.
6. Name two greenhouse gases.
7. Name two national parks in Kerala.
8. Expand IUCN
9. Name two extinct animals.
10. The neurological disease caused by severe mercury poisoning.

**(10 x 1 = 10 Marks)**

B. Answer any *ten* questions in two or three sentences. Each question carries 2 marks:

11. What is biotic potential?
12. What is keystone species?
13. Explain red data book.
14. Stockholm conference.
15. Write briefly on behavioural toxicity.
16. Differentiate between LD<sub>50</sub> and LC<sub>50</sub>
17. What are the effects of reclamation of wetlands?
18. Distinguish between autecology and synecology.
19. What is a climax community?
20. Explain the concept of sustainable development.
21. Explain chemosynthetic energy production.
22. What is Shannon diversity index?

**(10 x 2 = 20 Marks)**

C. Answer any *five* questions in not more than a paragraph each. Each question carries 6 marks:

23. Define food chain. What are the different kinds of food chain?
24. Write a note on social and ecological consequences of construction of dams.
25. Classification of natural resources.
26. Give an account on population growth curves.
27. Explain any four conservation project in India.
28. Write a brief account on different sampling methods of animal populations.
29. Briefly describe ammensalism and commensalism with examples.
30. Describe ecological succession.

**(5 x 6 = 30 Marks)**

D. Write essays on any *two* of the following. Each question carries 10 marks:

31. Write an essay on insitu and exsitu conservation strategies.
32. What are biogeochemical cycles? Explain nitrogen cycle.
33. Describe the concept of limiting factors.
34. Define population. What are the salient features of population?

**(2 x 10 = 20 Marks)**

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