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R - 7488

Reg. No. : .....

Name : .....

**Second Semester M.Sc. Degree Examination, November 2023**

**Botany**

**BO 222 : ENVIRONMENTAL BIOLOGY, FOREST BOTANY,  
PHYTOGEOGRAPHY AND CONSERVATION BIOLOGY**

**(2019 Admission Onwards)**

Time : 3 Hours

Max. Marks : 75

(Draw diagrams wherever necessary)

- I. Answer the following questions.
1. What is meant by character displacement?
2. What is meant by primary productivity?
3. What leads to the formation of age-structured populations?
4. Define edge-effect.
5. Explain the term Savannah.
6. What are the advantages of vivipary?
7. Write notes on remote sensing.
8. What is meant by shellac?
9. What is meant by static phytogeography?
10. Mention the significance of GIS.

**(10 × 1 = 10 Marks)**

P.T.O.



ii. Answer the following questions in not more than 50 words.

11. (a) Write notes on ecological pyramids.  
OR

(b) Explain the term trophic levels.

12. (a) What are the major reasons for greenhouse effect?  
OR

(b) Comment on global warming.

13. (a) Describe the major features of Taiga forests.  
OR

(b) What are the consequences of deforestation?

14. (a) Give an account of dynamic phytogeography.  
OR

(b) Give an account of Project tiger.

15. (a) Give an account of Biogas plant.  
OR

(b) Comment on land bridges.



(5 × 2 = 10 Marks)

III. Answer the following questions in not more than 150 words.

16. (a) Explain the term eutrophication.  
OR

(b) Comment on PBR.

17. (a) Explain role of IUCN in conservation strategies.  
OR

(b) Write notes on nuclear hazards.

18. (a) Give an account of forest products of Kerala.

OR

(b) Comment on genesis and consequences of acid rain.

19. (a) Comment on evolution of plant life through ages.

OR

(b) Explain the strategies for sustainable use of bio-resources.

20. (a) Explain various biosphere reserves of India.

OR

(b) Give an account of MAB.

21. (a) Explain various aspects of agro-forestry in detail.

OR

(b) Give an account of nitrification inhibitors.

22. (a) Explain various energy sources in detail.

OR

(b) Write about major objectives of UNEP.



**(7 × 5 = 35 Marks)**

IV. Answer the following questions in not more than 250 words.

23. (a) Write an essay on soil types of India.

OR

(b) Give an account of two major conservation strategies.

24. (a) Give an account of energy flow and mineral cycling.

OR

(b) Describe various stages of Xerosere and Hydrosere successions in detail.

**(2 × 10 = 20 Marks)**

