

(FOR THE CANDIDATES ADMITTED  
DURING THE ACADEMIC YEAR 2025 ONLY)

25PBY1E1

REG.NO. :

**N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI**  
**END-OF-SEMESTER EXAMINATIONS : NOVEMBER-2025**

**M.Sc.-BOTANY**  
**SEMESTER: I**

**MAXIMUM MARKS: 75**  
**TIME : 3 HOURS**

**ECOLOGY AND PHYTOGEOGRAPHY**

**SECTION – A**

**(10 X 1 = 10 MARKS)**

**ANSWER THE FOLLOWING QUESTIONS.**

**(K1)**

**MULTIPLE CHOICE QUESTIONS.**

1. The living component of ecosystem is referred to as \_\_\_\_\_.  
a) Standing crop                      b) Standing state                      c) Biomass                      d) Biomass state
2. Xerosere does not contain \_\_\_\_\_.  
a) Foliose lichen stage                      b) Moss stage                      c) Crustose stage                      d) Woodland stage
3. Primary cause of acid rain around the world is \_\_\_\_\_.  
a) Carbondioxide                      b) Sulphur dioxide                      c) Carbon monoxide                      d) Ozone
4. Forest (conservation) act 1980 was amended in \_\_\_\_\_.  
a) 1981                      b) 1984                      c) 1986                      d) 1988
5. Tropical ever green forests are found in \_\_\_\_\_.  
a) Western ghats                      b) Deccan                      c) Sundarban                      d) Indus plain

**ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.**

**(K2)**

6. Define edaphic factor
7. Define biodiversity
8. Interpret global warming
9. Expand GIS
10. Define endemism

**SECTION – B**

**(5 X 5 = 25 MARKS)**

**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)**

11. a) Assess the structure and function of a pond ecosystem  
**(OR)**  
b) Assess the effect of topographic factors on vegetation
12. a) Interpret sand dune succession.  
**(OR)**  
b) Describe Biodiversity Hot spots.

**(CONTD.....2)**

13. a) Interpret acid rain.  
(OR)  
b) Compare the effect of El-nino, La-Nina.
14. a) Assess eco remediation.  
(OR)  
b) Describe carbon foot print.
15. a) Briefly assess continental drift hypothesis.  
(OR)  
b) Describe the factors involved in distribution of plants

**SECTION – C****(5 X 8 = 40 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.****(K4 (Or) K5)**

16. a) What is biotic interaction? Explain the types of biotic interaction you have studied.  
(OR)  
b) Discuss population ecology.
17. a) Outline the various stages of hydrosere.  
(OR)  
b) Discuss the role of *ex-situ* conservation in biodiversity conservation.
18. a) Outline the sources ,pollutants, effects and control measures of water pollution.  
(OR)  
b) Compare Global warming and Ozone depletion.
19. a) Define EIA and give an account of it.  
(OR)  
b) Describe the application of remote sensing in ecological studies
20. a) Describe the phytogeographical regions of India.  
(OR)  
b) Give an account of endemism.

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