(FOR THE CANDIDATES ADMITTED

 DURING THE ACADEMIC YEAR 2022 ONLY)

22PBY1E1

REG. NO

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS : DECEMBER-2022
COURSE NAME:M.Sc.-BOTANY   **MAXIMUM MARKS: 50**
SEMESTER - I   **TIME : 3 HOURS**

ECOLOGY AND PHYTOGEOGRAPHY

SECTION – A   **(10 X 1 = 10 MARKS)**
ANSWER THE FOLLOWING QUESTIONS.
MULTIPLE CHOICE QUESTIONS.   **(K1)**

1.   Charles Elton introduced_____.
      a) Food web   b) Food chain   c) Edge effect   d) Ecological pyramids

2.   one of the following stages of Xerosere_____.
      a) Crustose lichen stage   b) Submerged stage   c) Floating stage   d) Rooted submerged stage

3.   Minamata disease is due to_____.
      a) Mercury   b) Phosphorus   c) Both a & b   d) Methyl isocyanate

4.   Remote sensing techniques make use of the properties of emitted, reflected or diffracted
      by the sensed objects.
      a) Electric waves   b) Sound waves   c) Electromagnetic waves   d) Wind waves

5.   Eco-auditing focuses on _____.
      a) Assessment of actual effects of existing activities b) Assessment of project decisions
      c) Policy assessment   d) Post project assessment

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.   **(K2)**
6.   What are coprophagous?
7.   What is ecads?
8.   Comment on e-waste.
9.   List the objectives of EIA.
10. What is palaeo-endemic?

SECTION – B   **(5 X 3 = 15 MARKS)**
ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a)   What are the structural components of Ecosystem?
                              (OR)
      b)   Explain briefly population ecology.

12. a)   Demonstrate the various stages of hydrosere.
                              (OR)
      b)   Discuss the keystone species.

13.a)   How do you prevent air being polluted?
                              (OR)
      b)   Comment on marine pollution.

14.a)   Bring out the benefits of EIA.
                    (OR)
    b) How can you reduce your college campus carbon footprint?

15. a) Describe the continental drift theory.
                    (OR)
    b) How do you analyze the vegetation by Quadrat method?

SECTION – C   **(5 X 5 = 25 MARKS)**
ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.
                    (K4 (Or) K5)

16. a) How would you investigate the energy flow through ecosystem?
                    (OR)
    b) Discuss the edaphic factors that affects the vegetation.

17.a)   Summarize the various conservation methods of biodiversity.
                    (OR)
    b) What is aquatic ecosystem and how does the major element interact in an aquatic ecosystem?

18. a) What type of environmental pollution is most dangerous for humans and why? How will you prevent it?
                    (OR)
    b) Discuss in detail the source and cause for ozone layer depletion and its impacts on ecosystem and human beings.

19. a) Remote sensing and GIS are important tools for ecological studies – Justify
                    (OR)
    b) How can you contribute for creating environmental awareness?

20. a) Describe in detail the vegetation of Tamil Nadu.
                    (OR)
    b) Analyze endemism and endemic species.

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ETHICAL PAPER