B.Pharm Even Semester Examination, May, 2025

PHARMACEUTICAL SCIENCES

(2nd Semester)

Course No: BP-206T

(Environmental Sciences)

FM: 50

Time: 2 Hours

The figures in the right margin indicate full marks for the question

I. Long Answers (Answer any 2 out of 3) **10×2=20**

1. What do you mean renewable and non-renewable resource? Discuss how the use of solar and wind energy can reduce our dependence on fossil fuels. 2+8=10

2. Explain the concept of energy flow in an ecosystem, detailing the roles of producers, consumers (herbivores, carnivores, omnivores) and decomposers, and discuss why energy transfer between trophic levels is inefficient. 6+4=10

3. Explain the photochemical reactions leading to smog formation, identify its primary chemical constituents and discuss its environmental and health impacts along with prevention measures. 6+2+2=10

II. Short answers (Answer any 6 out of 9) **5×6=30**

4. What is eutrophication, and how does it affect aquatic ecosystems? 2+3=5

5. Why is water considered a finite yet renewable resource? Briefly clarify this paradox with examples. 2+3=5

6. Define acid rain and identify its primary precursor pollutants and the conditions that favor its formation. 2+1+2=5

7. Define ecosystem. What are the components of ecosystems?Give example. 1+4=5

8. What do you mean by soil pollution? How pollutants like heavy metals, pesticides, and industrial wastes degrade soil quality? 1+4=5

9. How is a food web different from a food chain?Give one example where a single species appears in more than one food chain within a food web. 4+1=5

10. Define aquatic ecosystem. Differentiate between lentic and lotic ecosystems with examples. 1+4=5

11. Why is environmental studies considered a multidisciplinary field? 5

12. Exaggerate the importance of land resources. What challenges may arise in land resource management? 2+3=5

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