b) Criteria for Identifying Wetlands of international importance.

Unit - III

5. Define watershed. Describe briefly the classification of watershed based on landuse. 2+12=14

6. Write short notes on the following : 7x2=14
   a) Human impacts on hyporheic zone
   b) Factors affecting watershed.

Unit - IV

7. What is sedimentory cycle? Describe briefly the cycling of nitrogen in freshwater systems with suitable diagrammatic illustration. 2+12=14

8. Write short notes on the following : 7x2=14
   a) Physical environmental factors in freshwater systems
   b) Nutrient processing in freshwater systems.

Unit - V

9. What are periphytons? Discuss different types of periphytic communities growing in freshwater ecosystems highlighting their characteristic features. State their ecological importance. 2+8+4=14

10. Write short notes on the following : 7x2=14
    a) Zooplanktors and its ecological significance
    b) Ecological and economic importance of fish.

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PG EVEN SEMESTER EXAMINATION, 2024

ECOLOGY AND ENVIRONMENTAL SCIENCE

2nd Semester

Course No. : ECGCC - 551

(Freshwater Ecology)

Full Marks : 70

Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

(Answer any five questions, selecting one from each unit)

Unit - I

1. Describe the global distribution of water. Discuss the density dependent thermal stratification of a deep temperate lake. 6+8=14

2. Write short notes on the following : 7x2=14
   a) Artificial reservoir
   b) Cultural ecosystem service of lake.

Unit - II

3. What do you mean by wetlands? Discuss in detail the major systems of wetlands according to the US Fish and Wildlife service. Explain the different subsystems of riverine ecosystem. 2+7+5=14

4. Write short notes on the following : 7x2=14
   a) National Wetlands Conservation Programme

(Turn Over)