b) Criteria for identifying wetlands of international importance.

Unit - III

5. Define watershed. Write a note on the classification of watershed based on land use. 2+12=14

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

Unit - IV

7. Describe briefly the cycling of nitrogen in freshwater system with suitable diagrammatic illustrations. 14

8. Write short notes on : 7x2=14
   a) Physical environmental factors in freshwater ecosystems.
   b) Productivity of freshwater ecosystems.

Unit - V

9. Write a note on different types of macrophytes growing in different zones of a lake ecosystem. Mention four important ecological roles of freshwater macrophytes. 10+4=14

10. Write short notes on : 7x2=14
    a) Zooplankton in freshwater
    b) Ecological importance of fishes.

★★★

PG (CBCS) EVEN SEMESTER EXAMINATION, 2024

ECOLOGY AND ENVIRONMENTAL SCIENCE

2nd Semester

Course No. : ECGCC - 201

(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. Differentiate between pond and lake ecosystem. Mention two different lakes highlighting their special features. 4+10=14

2. Write short notes on : 7x2=14
   a) Formation of lakes
   b) Littoral zone of lake

Unit - II

3. Define wetland. Discuss in detail the major systems of wetlands according to the U.S. Fish and Wildlife Service. Explain the different subsystems of the Riverine System. 2+7+5=14

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

(Turn Over)