Unit - III

5. Discuss the equilibrium theory of Island Biogeography with suitable examples and graphs. State the basic equation of island biogeography theory. According to Myer, the tropical forests are being lost at the rate of 1.8% per year. Find the annual rate of reduction in the number of species in this scenario. (The extinction coefficient may be taken as 0.3) 8+2+4=14

6. Write short notes on : 7x2=14
   a) National Biodiversity Strategy and Action Plan (NBSAP) of India
   b) Community Conservation Areas (CCA)

Unit - IV

7. Write a detailed account of the important protected areas of Northeast India emphazing their role in the conservation of rare and threatened species. 10+4=14

8. Write short notes on: 7x2=14
   a) Threatened vascular plants
   b) Biological invasions.

Unit - V

9. Mention the importance of Indigeneous Knowledge (IK) and the role it plays in Biodiversity Conservation. Write the scientific name, family and uses of five ethnobotanically important plants found in North East India. 4+10=14

10. Write short notes on : 7x2=14
    a) Traditional Knowledge and Plant genetic resource conservation
    b) Sacred groves.

★★★

PG EVEN SEMESTER EXAMINATION, 2024

ECOLOGY AND ENVIRONMENTAL SCIENCE

4th Semester

Course No. : ECG - 653 (EL-B)

(Biodiversity Conservation)

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. Define Biodiversity. What are the different levels and types of Biodiversity? Add a note on the latitudinal and altidunial gradient of Biodiversity. 1+(3+3)+7=14

2. What are the values of Biodiversity? Write an elaborate note on the various types of Biodiversity values. 2+12=14

Unit - II

3. Write an account on the impact of climate change on various forms of biodiversity across the world. Add a brief note on Millenium Ecosystem Assessment (MEA) and Millenium Development Goals (MDG) in biodiversity. 9+2.5+2.5=14

4. Write short notes on: 7x2=14
   a) Public awareness and nature camps
   b) Aims and objectives of CBD

(Turn Over)