4. Write short notes on : 7x2=14
   a) Phenological activities in tropical forest trees
   b) Protocols for tree nursery

Unit - III

5. Describe the various components of forests that are crucial in storing biomass. Add a note on key factors affecting biomass production. 7+7=14

6. Write short notes on : 7x2=14
   a) Direct and indirect methods of biomass estimation
   b) Forest hydrology

Unit - IV

7. Describe the history of forest management in India with examples. 14

8. Write short notes on : 7x2=14
   a) Joint forest management
   b) Plantation forestry

Unit - V

9. What is Urban forestry? Discuss its benefits and issues. 14

10. Write short notes on : 7x2=14
    a) Methods for protection of forest seeds under storage
    b) Impact on growth and control measures of *Hyblaea puera* on teak.

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PG (CBCS) EVEN SEMESTER EXAMINATION, 2024

ECOLOGY AND ENVIRONMENTAL SCIENCE

2nd Semester

Course No. : ECGCC - 202

(Forest 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. Define forest types. Explain the forest classification based on climatic patterns. Describe the different vegetation types found in India with examples. 1+4+9=14

2. Write short notes on : 7x2=14
   a) Forest and tree cover in India
   b) Component and pattern of forest structure

Unit - II

3. Differentiate between a high forest and a coppice forest. Describe the process of natural regeneration by seeds. Highlight the aim of artifical regeneration in forest management. 2+9+3=14