



Bs/EVS C-7T

2025

(FYUGP)

(4th Semester)

ENVIRONMENTAL SCIENCE

(MAJOR)

Paper : EVS C-7T

(Systematics and Biogeography)

Full Marks : 75

Pass Marks : 40%

Time : 3 hours

***The figures in the margin indicate full marks
for the questions***

- 1. Explain the concept of systematics. What are the steps in making a herbarium? 7+8=15**

Or

What are the taxonomic evidences obtained from anatomy? 15

- 2. Describe the principles of priority and its limitation. Write a short note on 'types' in taxonomy. 8+7=15**

Or

List out some of the requirements for valid publication. Explain the Bentham and Hooker's classification system. 5+10=15

3. What are phenogram? Discuss in detail 'gene as a unit of evolutionary change'. 5+10=15

Or

What is DNA barcoding? Explain the different biogeographical realms and their fauna. 3+12=15

4. What is extinction? Explain the means of dispersal and barriers to dispersal. 5+10=15

Or

Discuss, in detail, continental drift and plate tectonics and their role in biogeographic patterns. 15

5. What are the biotic and abiotic determinants of communities? How is remote sensing used in conservational planning? 15

Or

What is the relationship between species and area? Explain the equilibrium theory of insular biogeography. 5+10=15
