

Bs/EVS C-7T



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(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. Define systematics. Explain the role of museum and botanical gardens in taxonomic study. 3+12=15

Or

Explain a valid publication according to ICBN. Draw the Bentham and Hooker classification chart. 5+10=15

(2)

2. What is operational taxonomic unit? Explain the various types of phylogenetic tree. 5+10=15

Or

What is mutation? Explain the different types of mutation. 5+10=15

3. Describe in detail the biogeographical rules. 15

Or

Explain the causes and types of speciation. 7+8=15

4. Discuss the biogeographical dynamics of climate change and Ice Age. 15

Or

What is a taxonomic database? Discuss the taxonomic evidences from cytology. 5+10=15

5. Explain the concept of rarity and commonness. What are the various types of ecological niche? 7+8=15

Or

What is phylogeography? Explain the application of biogeographical rules in design of protected area and biosphere reserves. 5+10=15

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