

Ba/Bs/EVS/C-5T

2025
(FYUGP)
(3rd Semester)



ENVIRONMENTAL SCIENCE
(MAJOR)

Paper Code : EVS/C-5T

(**Ecology and Ecosystem**)

Full Marks : 75

Pass Marks : 40%

Time : 3 hours

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

1. Define autecology and synecology. Explain ecosystem stability, resilience and resistance. 5+10=15

Or

What is ecozone? Explain the major terrestrial biomes on earth. 2+13=15

2. Define r and k selection. Describe ruderal, competitive and stress tolerance strategies. 5+10=15

(2)

Or

Explain life tables and survivorship curves of population. Describe the geometric and exponential growth of population. 7+8=15

3. What is physiognomy? Write in detail the community structure and organization of forest ecosystem. 2+13=15

Or

Explain amensalism and mimicry species interaction. Describe various types of succession. 5+10=15

4. Write a note on lentic and lotic ecosystem. Explain the models of energy flow. 7+8=15

Or

What is trophic efficiency? Describe each step of decomposition process. 5+10=15

5. What is biotic accumulation? Explain in detail the carbon cycle. 3+12=15

Or

Define the concept of exotics and invasives. Explain the impact of invasion on ecosystem and communities. 5+10=15

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