Bs/ZOO/C2 (T)

2023 (FYUGP)

(1st Semester)

ZOOLOGY (Major)

Paper Code: ZOO/C2 (T)

(Principles of Ecology)

Full Marks: 75
Pass Marks: 40%

Time: 3 hours

The figures in the margin indicate full marks for the questions

Write notes on Autecology and Synecology.
 7½+7½=15

Or

Enumerate on the laws of limiting factors. 15

2. Define population. Explain exponential and logistic growth of population. 1+7+7=15

24L/397

(Turn Over)

Or

Write notes on the following:

7½×2=15

- (a) Population density
- (b) Fecundity
- 3. What is population regulation? Discuss density-dependent and density-independent factors of population regulation. 2+13=15

Or

Discuss Gause's principle of competition exclusion as a fundamental concept in ecology citing field and laboratory examples. 15

4. Write notes on the following:

7½×2=15

- (a) Species richness
- (b) Vertical stratification

Or

Write an account on theories pertaining to climax community.

5. Discuss the different types of ecosystems. Explain one ecosystem in detail. 5+10=15

Or

With proper diagrammatic representation, explain the carbon cycle in detail. 15

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