

2024

ZOOLOGY

ZOOL-1054

(Ecology and Environmental Biology)

Total Marks : 40

Time : 2 Hours

Total number of printed pages -2

The figures in the margin indicate full marks for the questions

1. Answer the following questions : 2×5=10
 - (a) "Biodiversity can affect the stability of ecosystem" - Justify the statement. 2
 - (b) Define the term niche partitioning. 2
 - (c) What are the three important features of climax community? 2
 - (d) What is r and k reproductive strategy? 2
 - (e) Define niche separation. Give an example. 1+1=2

2. Answer any six from the following questions : 5×6=30
 - (a) Define ecosystem. Explain the structure of forest ecosystem. 2+3=5
 - (b) Explain the three measures of species diversity. 5
 - (c) Define life table. What are the different type of life table? 2+3=5
 - (d) Explain the different factors of Ozone layer depletion. 5
 - (e) Define Environmental Impact Assessment (EIA). Explain objectives of EIA. 2+3=5

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- (f) Explain the different principles of Biodiversity conservation.5
- (g) Write short notes on. $2\frac{1}{2}+2\frac{1}{2}=5$
- (i) Hydrosere with diagram.
- (ii) Density dependent factors

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