





**(Descriptive)**

Time : 2 hr. 30 mins.

Marks : 50

[ Answer question no.1 & any four (4) from the rest ]

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|---|----------|
| 1. Discuss any three Functional characteristics of Ecosystem with special emphasis on energy flow with suitable examples.                 | 8+2=10   |
| 2. Write short notes on:<br>a) Different types of niches<br>b) Biotic factors   | 5+5=10   |
| 3. Write short notes on:<br>a) J shaped growth curve<br>b) Mortality<br>c) r and k selected species<br>d) Seasonal population fluctuation | 2.5×4=10 |
| 4. Intricate the different positive and negative interactions with suitable examples.   | 5+5=10   |
| 5. What is Community? Illustrate the qualitative characteristics of a community.  | 2+8=10   |
| 6. What is diversity? Describe different diversity indices with formula.  | 2+8=10   |
| 7. What is ecological succession? What are the general causes and stages of succession?   | 2+8=10   |
| 8. What is biogeochemical cycle? Elucidate Nitrogen cycle with suitable diagrams.   | 2+8=10   |

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