

M.Sc. (Part-I) Semester-I (C.B.C.S. Scheme) Examination

ENVIRONMENTAL SCIENCE

(Concepts of Ecology and Biodiversity)

Paper—II

Time : Three Hours]

[Maximum Marks : 80

Note :— All questions are compulsory and carry equal marks.

1. Explain in brief :

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|-------------------------------------|---|
| (a) Gene ecology and palco-ecology. | 5 |
| (b) Principles of ecology. | 5 |
| (c) Concept of autecology. | 6 |

OR

- | | |
|---|---|
| (d) Physiological ecology. | 5 |
| (e) Subdivisions of ecology and importance. | 5 |
| (f) Synecological characters. | 6 |

2. Describe in brief :

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|---|---|
| (g) Natality and Mortality. | 5 |
| (h) Carrying capacity. | 5 |
| (i) Random and uniform population characters. | 6 |

OR

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|--|---|
| (j) Density of population. | 5 |
| (k) Biotic potential. | 5 |
| (l) Characteristic features of population ecology. | 6 |

3. Describe in brief:
- (m) Ecological niche. 5
 - (n) Ecotone character and importance. 5
 - (o) Mechanism of succession. 6
- OR**
- (p) Characters of community ecology. 5
 - (q) Parasitism with example. 5
 - (r) Course of succession. 6
4. Describe the Hotspots of Biodiversity. 16
- OR**
- Describe the strategies for conservation of biodiversity. 16
5. Describe Biodiversity Act, 2002. 16
- OR**
- Describe the Exsitu conservation methods of biodiversity. 16