

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

ENVIRONMENTAL SCIENCE

(Environmental Science : An Interdisciplinary Approach)

Paper—I

Time : Three Hours]

[Maximum Marks : 80

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

1. Describe in brief :

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|--|---|
| (a) Principles of Environment Science. | 5 |
| (b) Human population growth Environmental issue. | 5 |
| (c) Human attitude towards Environment. | 6 |

OR

- | | |
|--|---|
| (d) Scope of Environmental Science. | 5 |
| (e) Urbanisation, challenging issue of Environment. | 5 |
| (f) Role of sustainability and carrying capacity in Environment. | 6 |

2. Discuss in brief :

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|--|---|
| (g) Earth as an ecosystem. | 5 |
| (h) Energy transfer process in ecosystem. | 5 |
| (i) 1 st and 2 nd law of thermodynamics. | 6 |

OR

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|---|---|
| (j) Concept of Environment unity. | 5 |
| (k) Concept of material balance. | 5 |
| (l) Concept of various heat transfer process. | 6 |

3. (m) Describe in short the geoscience factors and their importance in Environmental Planning. 8
- (n) Discuss classification of trace elements. Add a note on the mobility of trace elements. 8

OR

- (o) Discuss the concept of plate tectonics. Comment on major plates and its boundaries in Environment. 8
- (p) Discuss in detail the role of biogeochemical factors in Environmental Health. 8
4. Describe in brief :
 - (q) City as a system. 5
 - (r) Effect of city life on city planning and environment. 5
 - (s) Adverse effects of irrigation. 6

OR

- (t) Concept of waste disposal. 5
- (u) Effect of Fertilizers on Environment. 5
- (v) Effect of agrochemicals and steps towards pest management. 6
5. What are minerals ? Discuss role of minerals with respect to environment, Industry and life. 16

OR

- Define Environment Economics. Discuss Cost Benefit Analysis with its importance. 16