

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

ENVIRONMENTAL SCIENCE

(Geodynamics and Energy Resources)

Paper—IV

Time : Three Hours]

[Maximum Marks : 80

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

1. (a) Write in detail about function of ecosystem. 5
- (b) Describe in detail about ecological pyramids. 5
- (c) Describe in detail about productivity. 6

OR

- (d) Describe the concept of biomass. 5
- (e) Distinguish between aquatics and terrestrial ecosystem. 5
- (f) Explain factors affecting solubility of gases in water. 6
2. (g) Write informative note on El Niño. 5
- (h) Explain concept of Earth system. 5
- (i) Discuss causes and consequences of draught. 6

OR

- (j) Explain Arabian Sea branch of Indian Monsoon. 5
- (k) Explain various stages of rock cycle in environment. 5
- (l) Describe various energy cycles with their significances. 6
3. (m) Write a note on desertification. 5
- (n) Describe the impact of mining on soil and water. 5
- (o) What are the causes of floods in India and how can they be prevented ? Describe. 6

OR

- (p) Write on earthquakes and its type. 5
- (q) Define hazards. Write in detail about volcanic eruption. 5
- (r) Define soil erosion and describe various factors causing erosion of soil. 6
- 4. Describe in detail about formation and types of coal. Describe in detail uses of coal. 16

OR

Describe energy requirement. Describe in detail conventional sources of energy with suitable examples. 16

- 5. (s) Describe concept and working of solar pond with diagram. 8
- (t) Describe in detail sources and mechanism of biogas with diagram. 8

OR

- (u) Describe in detail concept and working of solar water heater with diagram. 8
- (v) Describe in detail concept and working of ocean tidal energy with diagram. 8