Bachelor of Science (B.Sc.) Semester–I New Education Policy (NEP) Examination

ENVIRONMENTAL SCIENCE

Compulsory Paper

Paper–2

Time : Three Hours] [Maximum Marks : 80

N.B.:— (1) All questions are compulsory and carry equal marks.
(2) Draw diagram wherever necessary.

1 (a) What are the goals and objectives of environmental education? Explain. 8

(b) Discuss the guiding principles of environmental education. 8

OR

(c) Explain the structure of atmosphere. 4

(d) Describe the hydrological cycle with illustration. 4

(e) Discuss the major components of the environment. 4

(f) Explain the main types of rocks. 4

2. (a) What are the different zones of the atmosphere? Discuss the significance of every zone. 8

(b) Define smog and types of smog. Explain the adverse effects of smog on humans. 8

OR

(c) Write explanatory note on greenhouse effect. 4

(d) State the consequences of stratospheric ozone depletion. 4

(e) What is meant by acid rain? How does it occur? 4

(f) Define precipitation. Discuss the formation of rain and drizzle in atmosphere. 4

3. (a) Explain the types of mutualism with examples. 8

(b) Discuss the adaptation to meet extreme temperature. 8

OR

(c) Write an informative note on Shelford law of tolerance. 4

(d) What are the effects of light on plants? 4

(e) Define ecology. Discuss the sub-divisions ecology. 4

(f) What is parasitism? Explain different types of parasite with suitable examples. 4

4. (a) Define ecosystem? Discuss any two types of terrestrial ecosystem. 8

(b) Explain grazing and detritus food chain with examples. 8

OR

(c) Discuss nitrogen cycle with illustration. 4

(d) How energy flow in a pond ecosystem? Explain. 4

(e) Write a note on ecological pyramids. 4

(f) Explain sulphur cycle with illustration. 4

5. Write in 2-3 lines :

(a) Function of the biosphere.

(b) Principles of environmental ethics.

(c) Name the greenhouse gases present in the atmosphere.

(d) Difference between temperature inversion and lapse rate.

(e) Stenothermal and eurythermal.

(f) Neutralism with examples.

(g) Classify biogeochemical cycle.

(h) Food web in forest ecosystem. 2×8=16

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