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B.Sc. (Hons.) Physics (Semester – 2nd)

ENVIRONMENTAL SCIENCES

Subject Code: BMNCC0002

Paper ID: 19131507

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

Q1. Attempt the following:

- a) How the tribal population is affected by timber extraction from forests?
- b) Give characteristics of non-renewable resources?
- c) What is the function of decomposers in a food chain?
- d) Write short note on ecological pyramid of biomass in a forest ecosystem?
- e) What are the sources of marine pollution?
- f) How does the nuclear power plant act as a major source of nuclear pollution?
- g) How do the non-point sources differ from point water sources?
- h) Enlist the issues related to resettlement and rehabilitation of people?
- i) Which pollutants are responsible for acid rain formation?
- j) Write short note on nuclear holocaust?

Section – B

(5 marks each)

- Q2. Describe the environmental consequences of deforestation?
- Q3. Write a detailed note on ecological succession and its types?
- Q4. Briefly explain various methods of municipal solid waste management?
- Q5. Elaborate on environmental implications of nuclear power plants?
- Q6. Give in detail advantages of rain water harvesting?

Section – C

(10 marks each)

- Q7. Discuss in detail the problems associated with over-utilization of surface and ground water?
- Q8. Demonstrate the major sources and impacts of air pollution in urban areas? Give the control measures for improving urban air quality?
- Q9. Explain in detail how does enhanced greenhouse effect contribute to global warming?