

BT/II/2018

Environmental Sciences (HAS-107C)

Time: 3 Hours

Max. Marks:75

- Instructions:** 1. It is compulsory to answer all the questions (1.5 marks each) of Part -A in short.
 2. Answer any four questions from Part -B in detail.
 3. Different sub-parts of a question are to be attempted adjacent to each other.

PART -A

- Q1 (a) Define Biomagnification. Give example. (1.5)
 (b) What are various types of biodiversity? Explain. (1.5)
 (c) Discuss the structure of ecosystem. (1.5)
 (d) What is green marketing? Give example. (1.5)
 (e) Distinguish between primary and secondary air pollutants with examples. (1.5)
 (f) How population, consumerism and waste generation are related? (1.5)
 (g) Enlist sources of urban solid waste. (1.5)
 (h) Why there is need to conserve our natural resources? (1.5)
 (i) Outline stratification in lake ecosystem. (1.5)
 (j) What are endangered, threatened, and endemic species? (1.5)

PART -B

- Q2 (a) Explain the multidisciplinary nature of environment as a subject. How would environmental awareness help to protect our environment? (8)
 (b) What do you mean by consumptive use value, productive use value, social value, ethical value and option value of biodiversity? (7)
- Q3 (a) Discuss the major environmental impacts of mining activities. (5)
 (b) Give a brief account of different categories of water pollutants. (5)
 (c) Comment upon Biomass as source of energy. (5)
- Q4 (a) Define Biodiversity. Explain different measures for conservation of biodiversity. (8)
 (b) What are greenhouse gases and greenhouse effect? Discuss potential and contribution of these gases to global warming. (7)
- Q5 (a) What are renewable sources of energy? Give a brief account of potential energy resources to be used in future. (8)
 (b) What are food chains and food webs? Why food webs have more importance in ecosystem? (7)
- Q6 (a) Explain in brief sources and control measures of air pollution. (8)
 (b) What is ozone depletion? How ozone gets depleted and which are the agents responsible for ozone depletion? (7)
- Q7 Write short note on the following:
 (a) Disposal and management of solid wastes. (5)
 (b) Age structural pyramids as tools for predicting population growth trends of a nation. (5)
 (c) Steps involved in sewage water treatment. (5)
