

2023

**B.Sc. Mathematics/BSc (Hons/Hons with research) I SEMESTER  
Environmental studies I ,VAC-101-N1**

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.
  - 4.

**PART -A**

Write very short notes on the following

- |                        |       |
|------------------------|-------|
| Q1 (a) Rio summit      | (1.5) |
| (b) Noise pollution    | (1.5) |
| (c) Deforestation      | (1.5) |
| (d) Acid rain          | (1.5) |
| (e) Fuel Cell          | (1.5) |
| (f) Tidal energy       | (1.5) |
| (g) Invasive species   | (1.5) |
| (h) Wetland ecosystem. | (1.5) |
| (i) Smog               | (1.5) |
| (j) Day zero           | (1.5) |

**PART -B**

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|---|------|
| Q2 (a) Discuss the impact of renaissance and industrial revolution on the environment | (8)  |
| (b) What is the Limits to Growth model of the Club of Rome?                           | (7)  |
| Q3 (a) Define resources and discuss the classifications of resources.                 | (8)  |
| (b) Non conventional energy sources   | (7)  |
| Q4 Discuss the sustainable development goals (SDGs)                                   | (15) |
| Q5 (a) Discuss the concept of scales of environmental phenomena                       | (5)  |
| (b) Discuss the reasons for loss of biodiversity                                      | (10) |
| Q6 (a) Discuss the concept of protected areas in biodiversity conservation            | (10) |
| (b) Discuss Role of traditional knowledge in environmental consevation                | (5)  |
| Q7 Define Biodiversity Hotspot. Describe the biodiversity hotspots in India           | (15) |