

**2023**

**Time - 3 hours**

**Full Marks - 60**

*Answer all groups as per instructions.*

*Figures in the right hand margin indicate marks.*

*Draw labelled diagrams wherever necessary.*

**GROUP – A**

1. Answer all questions and fill in the blanks as required. [1 × 8]
- (a) The three R that will help to conserve natural resources for long term use are \_\_\_\_\_.
  - (b) Land capable of being ploughed and used to grow crops is called as \_\_\_\_\_.
  - (c) \_\_\_\_\_ is the hotspot of biodiversity in India.
  - (d) The forest in Sunderbans is also called \_\_\_\_\_.
  - (e) Which plants is a non conventional source of energy ?
  - (f) The ecological footprint is a tool for ecological resources \_\_\_\_\_.
  - (g) Traditional environmental issues include \_\_\_\_\_.
  - (h) Why it is difficult to recycle plastics ?

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**GROUP – B**

2. Answer any eight of the following questions within two to three sentences each. [1½ × 8

- (a) What is sustainable utilisation ?
- (b) Write the utilization of rain water.
- (c) Name three minor forest products.
- (d) What is bioprospecting ?
- (e) Define biodiversity.
- (f) What is EIA ?
- (g) Define carbon footprint.
- (h) What is waste management ?
- (i) Tidal energy
- (j) Define renewable energy.

**GROUP – C**

3. Write notes on any eight of the following within 75 words each.

[2 × 8

- (a) Socio-cultural approaches to sustainability
- (b) Silviculture
- (c) Water harvesting

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- (d) IPR
- (e) Types of biodiversity
- (f) Bioenergy resources
- (g) Ecological footprint
- (h) Resource management
- (i) Conservation of natural resources
- (j) Geothermal energy resources

**GROUP – D**

*Answer all questions within 500 words each.*

4. Discuss the concept and approaches of sustainable utilization of natural resources. [6]

OR

Describe the sources of fresh water and its harvesting technology.

5. Describe the threats and management strategies of biological resources. [6]

OR

Discuss about the depletion and management of forest cover.

P.T.O.

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6. Describe the renewable energy resources.

[6]

OR

Discuss about the participatory resource appraisal.

7. Describe the international efforts in resource management and conservation.

[6]

OR

Give a brief account of resource accounting.