

2023-24

Time - 3 hours

Full Marks - 60

*Answer all groups as per instructions.
Figures in the right hand margin indicate marks.
Candidates are required to answer
in their own words as far as practicable.
Draw labelled diagrams wherever necessary.*

GROUP - A

1. Fill in the blanks. (all) [1 × 8]
- (a) Solar energy is a _____ types of Natural resource.
- (b) Cultivation of plants for fruits and nuts is known as _____.
- (c) The Earth Summit-II was held in 1997 in _____.
- (d) The percentage of salt in sea water is _____.
- (e) The Environmental Protection and Biodiversity Act was passed in the year _____.
- (f) GIS provides the ability to capture and analyse spatial and _____.

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- (g) UNEP stands for _____.
- (h) The total forest area of Odisha is _____ km² as of 2017.

GROUP - B

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

- (a) What do you mean by Pyrolysis ?
- (b) Name three important Acts passed by India regarding environment.
- (c) List five minor forest products.
- (d) What exactly is an ecological foot print accounting ?
- (e) Cite four examples of renewable energy.
- (f) Mention two main functions of Biosphere reserve.
- (g) What is integrated NRM ?
- (h) What is heat of vaporization ?
- (i) What is pasture land ?
- (j) Define sustainability.

[3]

GROUP - C

3. Write notes on any eight of the following within 75 words each. [2 × 8]

- (a) Genetic diversity
- (b) Depletion of resources
- (c) Silvi culture
- (d) Rain Saucer
- (e) Gamma diversity
- (f) Forest depletion
- (g) Bio-energy
- (h) National Solar Potential
- (i) Participatory rural appraisal
- (j) IUCN

GROUP - D

4. Answer any four of the following within 500 words each. [6 × 4]

- (a) Give an account of various approaches to sustainable development of Natural resources.

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- (b) Write a note on various rain water harvesting technologies.
- (c) Discuss forest cover and its significance with special reference to India.
- (d) Discuss various renewable sources of energy in India and their applications.
- (e) Describe ecological footprint with emphasis on carbon footprint.
- (f) Discuss briefly on natural resource accounting.
- (g) Briefly discuss on International efforts for resource management.