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63/1 (SEM-6) DSE3/BOTHE 6036

2024

BOTANY

Paper : BOTHE 6036

(Natural Resource Management)

Full Marks : 60

Pass Marks : 24

Time : Three hours

The figures in the margin indicate full marks for the questions.

1. Choose the correct answer from the following : ***(any five)*** 1×5=5
 - (a) Due to overuse of natural resources, coal will be available in our earth only for
 - (i) 32 years
 - (ii) 45 years
 - (iii) 72 years
 - (iv) 252 years

(b) An example of stock resource is

- (i) hydrogen
- (ii) petroleum
- (iii) micro-organisms
- (iv) wool

(c) National Remote Sensing Agency (NRSA) is located at

- (i) Lucknow
- (ii) Kanpur
- (iii) Hyderabad
- (iv) Kolkata

(d) Which of the following is not a chemical deterioration of soil?

- (i) Loss of organic matter
- (ii) Salinization
- (iii) Compaction
- (iv) Acidification

(e) When water freezes, it expands by how much percent of the volume?

- (i) 5.5%
- (ii) 7%
- (iii) 9%
- (iv) 11%

(f) The world's longest river is

- (i) Yangtze
- (ii) Amazon
- (iii) Missouri
- (iv) Nile

(g) Fresh water can be defined as water generally with less than how much ppm of dissolved salt?

- (i) 500
- (ii) 400
- (iii) 300
- (iv) 100

- (h) Delta diversity refers to
- (i) population
 - (ii) community
 - (iii) biome
 - (iv) biosphere
- (i) Boreal forests occupy the
- (i) tropical zone
 - (ii) temperate zone
 - (iii) subarctic zone
 - (iv) subtropical zone
- (j) The term 'aquifer' is used to describe
- (i) a body of water filled with rock or silt
 - (ii) high permeability of earth material
 - (iii) saturated zone which is in direct contact with the ground on subsoil
 - (iv) water that is found in soil or in underground formation

2. Answer the following questions : **(any five)**
2×5=10

- (a) How can lichen help in monitoring the pollution in air ?
- (b) What is air pollution? Give *any two* harmful effects.
- (c) What is IPR? Give *two* examples.
- (d) Write *three* importances of lakes.
- (e) What is the difference between in-situ and ex-situ conservation ?
- (f) What are the main objectives of IUCN ?
- (g) Fresh water is a renewable resource. Justify.

3. Answer the following questions : **(any five)**
5×5=25

- (a) What are resources? Write the differences between exhaustible and inexhaustible resources.
- (b) Describe various features of land utilization policy.

- (c) What is soil degradation ? Mention the causes of soil degradation.
- (d) What is biopiracy ? List some important causes of biopiracy.
- (e) Give the full form of EIA. Explain various steps and processes of EIA.
- (f) Write a short note on Red Data List. List three floral species belonging to endangered categories.
- (g) What is biodiversity ? Give a brief description on management strategies for biodiversity conservation.
- (h) Define a forest. Give a brief account on the significance of forests.
- (i) What is energy ? Describe various forms of energy.

4. Answer the following questions : **(any two)**
10×2=20

- (a) What is resource management ? Give an account of contemporary practice in resource management. 2+8=10

- (b) What is meant by wind farm ? Write a note on how forests influence the quality of our air, soil and water resources. 2+8=10
- (c) What is fallow land ? Mention four types of land utilization in India. 2+8=10
- (d) What is WCS ? Discuss about the principles and objectives of WCS. 2+8=10
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