

K-776

Total Pages : 3

Roll No.

ENS-502

Land Water and Bio-Resources

M.Sc. Environmental Science (MSCES)

Ist Semester Examination, 2023 (Dec.)

Time : 2 Hours]

Max. Marks : 70

Note : This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein. Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

SECTION–A

(Long Answer Type Questions)

Note : Section 'A' contains Five (05) long answer type questions of Nineteen (19) marks each. Learners are required to answer any Two (02) questions only.

(2×19=38)

1. Write short notes on any *two* of the following :
 - (a) Causes and Consequences of land degradation.
 - (b) Bharatpur Sanctuary.
 - (c) Status of water resources.
 - (d) Hotspots of biodiversity.
2. What are the water resources? Explain the utilization and conservation of water resources in India.
3. What are the different methods of biodiversity assessment? Describe the *ex-situ* and *in-situ* conservation of biodiversity with suitable examples.
4. What is sustainable use? Describe the national and international initiatives for the sustainable use of biodiversity.
5. Define wasteland. Describe the types, extent and conservation wastelands.

SECTION-B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only. (4×8=32)

1. Explain the importance of land resources.

2. Describe briefly the importance of Bharatpur Sanctuary.
 3. Describe briefly the rehabilitation and restoration of wastelands.
 4. Define land husbandry. Describe the importance of land husbandry.
 5. Define hazards. Explain the mitigation measures of land-related hazards.
 6. What are the major ecosystem services provided by the ecosystem? Briefly describe them with suitable examples.
 7. Describe the rain water harvesting method of water conservation.
 8. Write the full form of IUCN. Explain the IUCN Red List categories.
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