

This question paper contains 4 printed pages.

4643

Your Roll No.

B.Sc. Prog. / II

AS

ES-202 : Natural Resource Management

(Admissions of 2008 and onwards)

Time : 3 hours

Maximum Marks : 75

*(Write your Roll No. on the top immediately
on receipt of this question paper.)*

Answer Sections A and B on separate answer-books.

SECTION A

*Attempt three questions in all.
Question No. 1 is compulsory.*

1. (a) Define:

- (i) Natural Resource
- (ii) Hotspot
- (iii) Afforestation
- (iv) Threatened species.

1×4

(b) Expand (any four):

- (i) UNEP
- (ii) CDM
- (iii) IUCN

P.T.O.

(iv) JFM

(v) CAZRI

(vi) OPEC.

1×4

2. (a) *Rauwolfia serpentina* is an endangered medicinal plant. What methods/strategies can be adopted to conserve the plant? 6

(b) What is a biosphere reserve? What is the mandate of a biosphere reserve? 7

(c) What is the red data book? How does it help in the conservation of biodiversity? 2

3. Write short notes on (any two):

(a) Renewable energy resources

(b) Causes of land degradation

(c) Nutrient Budget.

7½×2

4. Answer any two of the following:

(a) What is social forestry? How is it different from agroforestry?

(b) What are rangelands? How are they affected by overgrazing?

(c) What are the causes and effects of deforestation?

7½×2

SECTION B

Attempt three questions in all from Section B.

Question No. 5 is compulsory.

5. (a) Distinguish between:
- (i) BOD and COD
 - (ii) Fresh water and marine water. 4
- (b) Give the names for:
- (i) Any *two* hotspots of India
 - (ii) Any *two* minerals obtained from sea
 - (iii) Any *one* endangered animal species and *one* extinct animal species of India. 3
6. (a) Describe the process of rainwater harvesting and its role in ground water recharge. 10
- (b) Explain the various physico-chemical and biological parameters used in fresh water quality evaluation. 5
7. (a) Give an account of marine farming of fishes and seaweeds and their advantages. 10
- (b) How can the introduction of a new species be a threat to biodiversity? 5

8. Write short notes on any two of the following:

- (a) Sustainable development
- (b) Reasons for the loss of biodiversity
- (c) Environmental influences on marine water.

7_{1/2} + 7_{1/2}