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S. No. of Question Paper : 5958

Unique Paper Code : 216571

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Name of the Paper : Environmental Management (BTHT 509)

Name of the Course : B.Sc. (Hons.) Botany

Semester : V

Duration : 3 Hours

Maximum Marks : 75

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

Attempt Five questions in all including Question No. 1 which is compulsory.

Attempt all parts of a question together.

1. (a) Define the following terms (any six) :

6×1=6

(i) Carrying capacity;

(ii) Sustainable development;

(iii) Greenhouse effect

(iv) Biomagnification;

(v) Secondary air pollutants;

P.T.O.

(vi) Cryopreservation;

(vii) Ecological footprint;

(viii) Contour farming;

(ix) Aquifers.

(b) Expand the following (any *five*) :

5×1=5

(i) CBD

(ii) IPCC

(iii) IUCN

(iv) MNES

(v) WWF

(vi) EPA.

(c) Match the following :

8×½=4

(1) Earth Day

(i) Wetlands

(2) World Elephant Day

(ii) 22nd April

(3) Ramsar Convention

(iii) Against construction of dams

- (4) International Tiger Day (iv) Protection of tress
- (5) Appiko Movement (v) 22nd March
- (6) Silent Valley Movement (vi) 12th August
- (7) Wildlife (vii) CITES
- (8) World Water Day (viii) 29th July

2. Write short notes on the following (any *three*) : 3×5=15

- (i) Rain Water Harvesting;
- (ii) Narmada Bachao Andolan;
- (iii) Montreal Protocol;
- (iv) Green Technologies;
- (v) Eutrophication.

3. (a) Differentiate between conventional and non-conventional sources of energy. Give *two* examples of non-conventional energy sources. Explain any *one* of these in detail. 5

(b) What are the major effects of ozone depletion on human health and forest ecosystems ? 5

- (c) Give significance of : 5×1=5
- (i) Catalytic convertors;
  - (ii) Mangrove ecosystem;
  - (iii) CNG;
  - (iv) Keystone species;
  - (v) Bioenergy.
4. (a) What are different categories of waste ? Discuss in brief the solid waste management strategies adopted in India. 8
- (b) Differentiate between *in-situ* and *ex-situ* conservation. Give salient features of Project Rhino. 7
5. (a) Discuss in brief the provisions of :
- (i) Environmental Protection Act; 5
  - (ii) Forest Conservation Act. 5
- (b) What are the possible consequences of GMOs on the environment ? 5
- (c) What are the sources of pollution in river water and groundwater ? Suggest various methods to prevent/treat such pollution. 5

6. (a) What are the main features of National Environment Policy of India ? 5
- (b) Bioremediation is an important management strategy. Discuss citing examples. 5
- (c) Write a short note on Red Data List ? List *three* floral and *two* faunal species that belong to endangered category. 5
7. (a) What is Environmental Impact Assessment (EIA) ? Explain in brief various steps and processes. 5
- (b) Discuss in brief the role of Biosphere Reserves in conservation of biological diversity. 4
- (c) (i) Burning of coal is harmful to environment. Explain. Suggest how can you make coal a cleaner fuel. 4
- (ii) What are the harmful effects of radioactive substances ? 2