

This question paper contains 4 printed pages]

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S. No. of Question Paper : 1005

Unique Paper Code : 216609

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Name of the Paper : Environmental Management—BTHT-509

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

Semester : VI

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.

Draw neat and labelled diagrams wherever necessary.

1. (a) Define the following :

6

(i) Eutrophic lake

(ii) Population explosion

(iii) Biosphere reserves

(iv) Deforestation

(v) Urban sprawl

(vi) Cryopreservation.

(b) Differentiate between the following :

8

(i) Rare and vulnerable species

P.T.O.

- (ii) Alpha and beta biodiversity
 - (iii) Ecological and carbon footprint
 - (iv) Convention and protocol.
- (c) Expand the following abbreviations : 2
- (i) CITES
 - (ii) UNEP
 - (iii) IUCN
 - (iv) WCED.
- (d) When do we observe the following : 2
- (i) World Biodiversity Day
 - (ii) World Water Day
 - (iii) World Ozone Day
 - (iv) Earth Day.
- (e) Give the importance of the following conventions : 4
- (i) Vienna convention
 - (ii) Basel convention.
- (f) Fill in the blanks : 3
- (i) Narmada Bachao Andolan was started by the social activist

- (ii) is the scientific intergovernmental body established in 1988 by WMO and UNEP.
- (iii) is the most common unit for measuring ozone concentration.
- (g) State whether the following statements are true *or* false : 2
- (i) Secondary pollutants are formed by the action of primary pollutants on atmospheric components.
- (ii) Radon-222 produced by the decay of Uranium-238 is an indoor air pollutant.
- (iii) Kyoto protocol is related to ozone depleting substances.
- (iv) We can reuse all the waste generated by anthropogenic activities.
2. (a) Briefly describe various types of wastes and their management strategies. 8
- (b) Define oil spill. Give the various methods to clean up oil spills. 4
3. (a) What are the *three* pillars of sustainable development ? What are the major threats to sustainable development ? 6
- (b) What is green technology ? What are the features of an eco-city ? 6
4. (a) What is the difference between a law and an Act ? Describe any *three* acts for environmental protection in India. 5
- (b) Describe the main provisions of the "Convention on biodiversity". 3
- (c) What is the aim of Kyoto protocol ? Briefly describe clean development mechanism. 4

5. (a) Describe various conventional sources of energy. Add a note on their merits and demerits. 8
- (b) Describe water as a natural resource. 4
6. (a) Describe the causes and consequences of global warming. 8
- (b) Write the major role of the following : 4
- (i) ZSI
- (ii) WWF
- (iii) NBPGR
- (iv) UNFCCC.
7. Write notes on any *three* of the following : 3×4=12
- (a) Radioactive pollution
- (b) Acid rain
- (c) Bioremediation
- (d) Environmental impact assessment
- (e) Chipko movement.