

S.No. : 381

BAS 3204

No. of Printed Pages : 04

Following Paper ID and Roll No. to be filled in your Answer Book.

**PAPER ID : 39910**

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**B. Tech., Int. MBA, Int. LLB Examination  
2021-2022**

**(Even Semester)**

**ENVIRONMENTAL STUDIES**

**Time : Three Hours]**

**[Maximum Marks : 60**

**Note :—** Attempt all questions.

**SECTION –A**

1. Attempt all parts of the following :  $8 \times 1 = 8$

- (a) Define term environment as per Environment (Protection) Act, 1986.
- (b) What will be impact on water DO and BOD levels due to eutrophication?
- (c) Write two example of conventional energy resources.
- (d) What is toxic limit of fluoride in drinking water as per WHO norms.

**[ P. T. O.**

- (e) What is unit to measure sound intensity?
- (f) What is the thickness of ozone layer in stratosphere?
- (g) What is natural disaster?
- (h) What is role of Ministry of Environment and forest (MoEF) in environment protection?

### SECTION – B

2. Attempt any two parts of the following :  $2 \times 6 = 12$

- (a) Define prey and predator. Discuss prey-predator interaction in an ecosystem with the help of Lotka-Volterra equation of population dynamics.
- (b) What is biogeochemical cycle? Discuss carbon cycle with the help neat and clean flow diagram.
- (c) Define air pollution. Differentiate between primary and secondary air pollutants with suitable example. Discuss removal method of particulate matter.

- (d) Discuss the role of government and legal aspects in respect of environmental protection.

### SECTION – C

**Note:-** Attempt all questions. Attempt two parts from each questions.  $8 \times 5 = 40$

3. (a) Define ecosystem. What do you mean by structure and function of an ecosystem? Explain single channel energy flow model in an ecosystem.
- (b) What is ecological pyramid? Discuss different types of ecological pyramid with suitable example.
- (c) What are main objectives of environmental education? Write importance and scope of environmental education.
4. (a) Define term Environment Impact Assessment? Discuss the procedure of EIA. At what stages of an EIA is the public involved/consulted?
- (b) Differentiate between deforestation and forest degradation. Discuss causes ill-effect and management measures of deforestation.

- (c) What is PV cell? Write application merits and demerits of solar energy.
5. (a) Define noise pollution. Discuss physical physiological and psychological effect of noise pollution. How it can be control.
- (b) What is solid waste? Classify solid waste materials on the basis of his characteristic features. Discuss the methods of solid waste management.
- (c) What is rain water harvesting? Write methods of rain water harvesting in brief.
6. (a) Briefly discuss the salient features of Environment (Protection) Act, 1986. Describe power of CPCB and SPCB in controlling the air pollution.
- (b) What is role of NGO's? Discuss role of NGO in environment protection.
- (c) What is environmental education? Discuss role of women education in environment protection.