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**DIRECTORATE OF DISTANCE EDUCATION
GURUJAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY,
HISAR**

Programme: POST GRADUATE DIPLOMA IN ENVIRONMENTAL MANAGEMENT

Course: Fundamentals of Environment

Code: PGDEM 01

Important Instructions:

All questions are to be attempted in legible handwriting on plane white A4 size papers and handed over for evaluation to the study centres concerned (University in case of Direct student). Total marks are 30.

PART-I

MAX MARKS: 15

1. Give a brief description of chemical properties of lakes. 5
2. What are the factors responsible for increase in human population? 5
3. What are different kinds of zones in marine water? 5

PART-I

MAX MARKS: 15

1. What are the major causes and effects of deforestation? 5
2. What are the population related environmental problem? 5
3. What are the main factors responsible for causing water logging? 5

Course: Natural Resource Conservation and Mgt.

Code: PGDEM 02

PART-I

MAX MARKS: 15

1. Describe the path a molecule of water might follow through the hydrological cycle from the ocean to land and back again. 5
2. What is wild life sanctuary? How many wild life sanctuaries are in India and which Indian State has maximum number of wild life sanctuaries? 5
3. Differentiate the terms reserves and resources. 5

PART-II

MAX MARKS: 15

1. How can we reduce the water demands in agriculture and households? 5
2. What are the major forest types of India? 5
3. Compare the bioleaching of minerals to other mineral processing technologies. 5

5

Course: Environmental Pollution

Code: PGDEM 03

PART-I

MAX MARKS: 15

1. What are Environmental Standards? Give BIS standards of drinking water and industrial effluent and sewage discharge in surface water, and public sewer.

5

2. Discuss the important inorganic gases in the atmosphere that act as pollutants. 5

3. Write a short note on automobile pollution. 5

PART-II

MAX MARKS: 15

1. Give details of sources of water pollution. 5

2. Write a brief note on fly ash. 5

3 Discuss the major effects of atmospheric pollutants on human health. 5

Course: Pollution Control and Management

Code: PGDEM 04

PART-I

MAX MARKS: 15

1. Discuss the important preventive and control measures to minimize air pollution due to SPM, NO_x and SO_x. 5
2. What is the advantage of using lime slurry rather than limestone beds for neutralization? 5
- 3 When would you use limestone beds for acid waste? 5

PART-II

MAX MARKS: 15

1. How solid wastes can be converted into fertilizers? 5
2. What are the objectives of equalization and proportioning of industrial wastes?
5
3. How will you recover energy from conversion products? 5

Course: Energy and Disaster Management

Code: PGDEM 05

PART-I

MAX MARKS: 15

1. What are the advantages and disadvantages of floating drum plant? 5
2. What is meant by geothermal energy? What are the main applications of geothermal energy? 5
3. Enumerate the method of solar desalinization of brine water. 5

5

PART-II

MAX MARKS: 15

1. What are the differences between fixed and floating drum biogas designs in India? 5
2. What is the classification of geothermal system? 5
3. What is energy conservation? Suggest the ways to conserve energy. 5

Course: Environmental Awareness & Legislation
Code: PGDEM 06

PART-I

MAX MARKS: 15

1. Why is base-line data important? Which parameters are usually taken in base-line inventory? 5
2. What is meant by cost-benefit analysis? 5
3. Why, when and where KhejarlikaKhadanna episode occurred? 5

PART-II

MAX MARKS: 15

1. Discuss various methods of impact identification and prediction. 5
2. What are the methods of environmental monetary valuation? 5
3. Who had started the Apiko movement and why? 5