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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

B.Tech

SEM : IV CARRY OVER THEORY EXAMINATION - AUGUST 2023

Subject: Environmental Science

Time: 2 Hours

Max. Marks: 50

General Instructions:

IMP: Verify that you have received the question paper with the correct course, code, branch etc.

1. This Question paper comprises of **three Sections -A, B, & C.** It consists of Multiple Choice Questions (MCQ's) & Subjective type questions.
2. Maximum marks for each question are indicated on right -hand side of each question.
3. Illustrate your answers with neat sketches wherever necessary.
4. Assume suitable data if necessary.
5. Preferably, write the answers in sequential order.
6. No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.

SECTION A

15

1. Attempt all parts:-

- 1-a. Which of the following is an organism that survives on dead organic matter? (CO1) 1
- (a) Rhizome
 - (b) Detritus
 - (c) Saprovore
 - (d) Omnivore
- 1-b. Stream reforming is currently the least expensive method of producing (CO2) 1
- (a) Biogas
 - (b) Biogas energy
 - (c) Geothermal energy
 - (d) Hydrogen
- 1-c. How many biogeography zones India have (CO3) 1
- (a) 5
 - (b) 6

(c) 8

(d) 10

- 1-d. Among the following , Secondary pollutant is (CO4) 1
- (a) Sulphur tetra oxide
 - (b) Ozone
 - (c) Carbon monoxide
 - (d) Sulphur dioxide
- 1-e. In current year International Women's day is recalled on (CO5) 1
- (a) 08-Mar-2023
 - (b) 20-Mar-2023
 - (c) 08-April-2023
 - (d) 08-May-2023

2. Attempt all parts:-

- 2.a. Define Ecology. (CO1) 2
- 2.b. What is the aim of chipko movement? (CO2) 2
- 2.c. What is the IUCN red list? Give any two uses of this list? (CO3) 2
- 2.d. Differentiate between primary and secondary air pollutants? (CO4) 2
- 2.e. Write short notes on effects and control measure of flood? (CO5) 2

SECTION B

15

3. Answer any three of the following:-

- 3-a. Briefly mention the biological life expected in various zones of a sea basin. (CO1) 5
- 3-b. Draw the diagram of solar cell? Write down the applications of solar cells? (CO2) 5
- 3.c. Describe the major characteristics of ecological succession? (CO3) 5
- 3.d. What is green house effect? Which gas is mainly responsible for global warming? (CO4) 5
- 3.e. Discuss the role and effort of global efforts in environmental protection? Discuss the different issues involved in enforcement of environmental legislation. ? (CO5) 5

SECTION C

20

4. Answer any one of the following:-

- 4-a. Discuss the biotic and abiotic components of pond ecosystem? (CO1) 4
- 4-b. How Nitrogen cycle play an important role in natural phenomenon. (CO1) 4

5. Answer any one of the following:-

- 5-a. Compare between conventional and non-conventional energy resources. (CO2) 4
- 5-b. Discuss the direct and indirect importance of forest resources. (CO2) 4

6. Answer any one of the following:-

- 6-a. White Bengal tigers are protected in special settings in zoological parks. Tiger reserves are maintained in Western Ghats. How do these two approaches differ from each other? Mention the advantages of each one. (CO3) 4
- 6-b. Write short notes on biosphere reserve and botanical gardens? (CO3) 4

7. Answer any one of the following:-

- 7-a. What is biological magnification? Explain how DDT as a water pollutant undergoes biological magnification? . (CO4) 4
- 7-b. Name the sources , effects and measures of air pollution. (CO4) 4

8. Answer any one of the following:-

- 8-a. Discuss the different steps of environmental impact assessment? (CO5) 4
- 8-b. Discuss the objectives of NGOs in details? (CO5) 4

2022-23 Jan - June