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Subject Code:- ANC0402

Roll. No:

NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

B.Tech

SEM: IV - CARRY OVER THEORY EXAMINATION - SEPTEMBER 2022

Subject: Environmental Science

Time: 2 Hours

Printed Page:-

General Instructions:

1. The question paper comprises three sections, A, B, and C. You are expected to answer them as directed.

2. Section A - Question No- 1 is 1 mark each & Question No- 2 carries 2 mark each.

3. Section B - Question No-3 is based on external choice carrying 5 marks each.

4. Section C - Questions No. 4-8 are within unit choice questions carrying 4 marks each.

5. No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.

SECTION A	15
SLUTIONA	15

1. Attempt all parts:-

1-a. Which of the following is an organism that survives on dead organic matter? (CO1)

- (a) Rhizome
- (b) Detritus
- (c) Saprovore
- (d) Omnivore

1-b. Hydroponics is a technique of growing crops without_____(CO2)

- (a) Water
- (b) Air
- (c) soil
- (d) Sunlight

1-c. The earliest settlers on barren lands generally are (CO3)

- (a) Diatoms
- (b) Ferns
- (c) Mosses
- (d) Lichens

2022

Max. Marks: 50

1

1

1

1-d. Which of the following are likely to be present in photochemical smog? (CO4)

- (a) Sulphur dioxide
- (b) Photochemical oxidants
- (c) CFC
- (d) Smog
- 1-e. When the consumption of natural resources are equal to nature's ability to replenish then 1 sustainability is (CO5)

1

4

- (a) Not sustainable
- (b) Steady state economy
- (c) Environmentally sustainable
- (d) none of the above
- 2. Attempt all parts:-

2.a.	Define the term ionosphere. (CO1)		2	
2.b.	Which are non-conventional source of energy ? Mention any three. (CO2)		2	
2.c.	Differentiate between species diversity and ecological diversity. (CO3)		2	
2.d.	What is the full form of three R? How they are benificial for environment protection? (C	204)	2	
2.e.	What is the role of NGO for improvement of environment? (CO5)		2	
	SECTION B	15		
3. Answer any three of the following:-				
3-a.	Differentiate between lithosphere and hydrosphere. (CO1)		5	
3-b.	Why hydrogen gas is considered as future fuel? Discuss the Nuclear Power and	l it's	5	
	Environmental Impacts? (CO2)			
3.c.	Write down the role of biosphere reserve, sanctuaries, and national park regarding	ng to	5	
	biodiversity conservation. (CO3)			
3.d.	Explain the sources. effects and control measures of radioactive pollution. (CO4)		5	
3.e.	Discuss the concept of sustainable development. Write short notes on objectives	and	5	
	importance of sustainable development. (CO5)			
	SECTION C	20		
4. Answer any <u>one</u> of the following:-				
4-a.	Discuss the different steps of Nitrogen cycle. (CO1)		4	

4-b. Discuss the biotic and abiotic components of pond ecosystem. (CO1)

5. Answer any one of the following:-

5-a.	Discuss the limitations of solar and wind energy. (CO2)	4	
5-b.	Explain the merits and demerits of using geothermal energy. (CO2)	4	
6. Answer any <u>one</u> of the following:-			
6-a.	What is ecological succession? Describe steps involve in ecological succession. (CO3)	4	
6-b.	Discuss the important wildlife projects of India. (CO3)	4	
7. Answer any <u>one</u> of the following:-			
7-a.	What do CFCs stand for? Name some devices where CFCs are used. (CO4)	4	
7-b.	Write three basic characteristics of a modern landfill site. What are the reasons they are	4	
	used? (CO4)		
8. Answer any <u>one</u> of the following:-			
8-a.	What do understand by EIA? Write involve steps in procedure of EIA. (CO5)	4	
8-b.	Discuss the objectives of sustainable development. (CO5)	4	