

Subject Code: ANC 0402

Roll No:

**NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA**  
(An Autonomous Institute Affiliated to AKTU, Lucknow)

**INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
(An Autonomous Institute Affiliated to AKTU, Lucknow)  
Branch:-

Course:- B. Tech/M.tech(Int)

Branch:- CSE/IT/ECE/M.Tech (Int.)

SESSIONAL EXAMINATION - I<sup>st</sup>

YEAR: 2021-2022

SEM: 4<sup>th</sup>

**Subject Name: Environmental Science**

**Max. Marks: 30**

Time: 1.15Hours

### Set A

General Instructions:

- General Instructions:**
- All questions are compulsory. Answers should be brief and to the point.
  - This Question paper consists of 1 pages & 5 questions.
  - It comprises of three Sections, A, B, and C. You are to attempt all the sections.
  - **Section A** -Question No- 1 is objective type questions carrying 1 mark each, Question No- 2 is very short answer type carrying 2 mark each. You are expected to answer them as directed.
  - **Section B** - Question No-3 is Short answer type questions carrying 5 marks each. You need to attempt any two out of three questions given.
  - **Section C** -Question No. 4 & 5 are Long answer type (within unit choice) questions carrying 6marks each. You need to attempt any one part a or b.
  - Students are instructed to cross the blank sheets before handing over the answer sheet to the invigilator.
  - No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.

		<u>SECTION – A</u>	[8 Marks]	
1.	<b>Attempt all parts</b>		(4×1=4)	CO
	a.	Carnivores are ----- consumers	(1)	1
	b.	Which of the following is an autotrophic component of a pond? a) Fungi    b) Fishes    c) Submerged plants    d) Water	(1)	1
	c.	Where we can find the inverted pyramids of biomass? a) Terrestrial ecosystem    b) Aquatic ecosystem c) Grassland ecosystem    d) Desert ecosystem	(1)	1
	d.	What is the characteristic of each type of ecosystem? a) Interaction between living things b) Interaction between biotic and abiotic factors c) Interaction between biotic factors d) Fights among individuals	(1)	1
2.	<b>Attempt all parts</b>		(2×2=4)	CO
	a.	What is importance of atmosphere?	(2)	1
	b.	Define the term herbivores and carnivores?	(2)	1
<u>SECTION – B</u>				
3.	<b>Answer any <u>two</u> of the following-</b>		[2×5=10]	CO
	a.	Discuss the different steps of Carbon cycle?	(5)	1
	b.	Discuss the steps of nitrogen cycle?	(5)	1

c.	Discuss the role of producers, consumers and decomposers in an ecosystem?	(5)	1
<b>SECTION – C</b>			
4.	Answer any <u>one</u> of the following-	(1 × 6 = 6)	1
a.	Discuss the components and functions of ecosystem?	(6)	
b.	What are ecological pyramids? Which ecological pyramid is always upright triangle and why?	(6)	1
5.	Answer any <u>one</u> of the following-	(1 × 6 = 6)	
a.	Explain hydrological cycle and discuss its importance in evolution and sustenance of biological life on Earth.	(6)	1
b.	Discuss the need of awareness regarding environmental protection? How can we aware the people for environmental protection?	(6)	1