Roll No.

Total Pages: 03

007407

May 2024

B.Tech (Fourth) Semester) Environmental Science (MC-03)

Time: 3 Hours]

[Maximum Marks: 75

Note: It is compulsory to answer all the questions (1.5 marks each) of Part A in short. Answer any *four* questions from Part B in detail. Different sub-parts of a question are to be attempted adjacent to each other.

Part A

		laitA	
wal .	(a)	Define HIV/AIDS.	1.5
	(b)	Differentiate contaminants and pollutants.	1.5
	(c)	Why is India considered a mega-biodiver	sity
		nation ?	1.5
	(d).	What is the process of ecolog	ica
		succession?	1.5
	(e)	How many national parks, sanctuaries	and
		biosphere reserves in India?	1.5
	(f)	What are the Articles 48A and 51A? Exp	lair
		its importance.	1.5

- (g) What is Ozone? Explain its importance in the stratosphere.

 1.5
- (h) Name three diseases that are caused by heavy metals.

 1.5
- (i) Explain in detail about the holocaust. 1.5
- (j) What is the difference between an earthquake and a cyclone?

Part B

- 2. (a) Write short notes on the following: $4 \times 2.5 = 10$
 - (i) Acid rain
 - (ii) Global warming.
 - (b) Discuss the government's and individuals' roles and steps for natural resource conservation and management.

 5
- 3. (a) What is a red data book? Write about extinct, endangered, vulnerable and rare species in detail.
 - (b) Explain biodiversity and its values and conservation approach. 10
- 4. What is Solid waste management? Explain its causes, effects, rules, and control measures. 15

- 5. (a) Write short notes on the following: $2 \times 2.5 = 5$
 - (i) Food web
 - (ii) Ecological pyramid.
 - (b) What is a biogeochemical cycle? Explain the carbon cycle in the environment. 10
- 6. (a) Write short notes on the following: $2 \times 5 = 10$
 - (i) Bhopal gas tragedy
 - (ii) Biomagnification.
 - (b) What are the major sources of air pollution?

 Discussed its effects and control measures.

5

- 7. (a) Discuss the role of information technology in the environment and human health. 5
 - (b) Write short notes on the following: 10
 - (i) Family welfare program
 - (ii) Rainwater harvesting.