

**May 2024**  
**B.Tech. (CE/CE(DS)/CE(H)) (IV Semester)**  
**ENVIRONMENTAL SCIENCES (MC-03)**

**Time: 3 hours**

**Max. Marks: 75**

**PART A (1.5 marks each)**

- Q1** (a) Define HIV/AIDS.  
(b) Differentiate contaminants and pollutants.  
(c) Why is India considered a mega-biodiversity nation?  
(d) What is the process of ecological succession?  
(e) How many national parks, sanctuaries and biosphere reserves in India?  
(f) What are the Articles 48A and 51A ? Explain its importance.  
(g) What is Ozone ? Explain its importance in the stratosphere.  
(h) Name three diseases that are caused by heavy metals.  
(i) Explain in detail about the holocaust.  
(j) What is the difference between an earthquake and a cyclone ?

**PART B**

- Q2** (a) Write short notes on the following 4×2.5=10  
(i) Acid rain  
(ii) Global warming  
(b) Discuss the government's and individuals' roles and steps for natural resource conservation and management. (5)
- Q3** (a) What is a red data book ? Write about extinct, endangered, vulnerable and rare species in detail. (5)  
(b) Explain biodiversity and its values and conservation approach. (10)
- Q4** What is Solid waste management ? Explain its causes, effects, rules, and control measures. (10)
- Q5** (a) Write short notes on the following: 2×2.5=5  
(i) Food web  
(ii) Ecological pyramid

(b) What is a biogeochemical cycle ? Explain the carbon cycle in the environment. (7.5)

**Q6** (a) Write short notes on the following 2×5=10

- (i) Bhopal gas tragedy
- (ii) Biomagnification

(b) What are the major sources of air pollution ? Discuss its effects and control measures. (7.5)

**Q7** (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.



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