

Hi-Tech Institute of Engineering & Technology	
DEPARTMENT OF APPLIED SCIENCE	
2nd MODEL PAPER, ODD SEMESTER-2023-24,	
Semester: 1st	Course/Branch: B. Tech
Subject Code: BAS104	Subject Name: ENVIRONMENT & ECOLOGY
Faculty Name: Dr SHALINI SRIVASTAV	
Time: 3: 00 Hours	Total Marks: 70

Note: Attempt all Sections. If you require any missing data, then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 2X7=14

Q No.	Question	Marks	CO
a.	Write a short note on Air borne diseases.	2	2
b.	What do you understand by the term Biotic and Abiotic. Explain with examples.	2	1
c.	Write the disadvantages of thermal pollution.	2	1
d.	Name five major Environmental laws.	2	2
e.	Name some prominent Indian NGOs working for the Environment.	2	2
f.	What are Bio indicators, Explain or Describe the term Flood and Drought.	2	1
g.	Write a note on any one- Cyclone, Earthquake, Landslide?	2	2

SECTION B

2. Attempt any *three* of the following: 7X3= 21

Q No.	Question	Marks	CO
a.	What are the alternative energy resources? Explain Hydrogen as a alternative future source of energy. Discuss the advantages and dis-advantages of Hydrogen energy. Explain in brief future application of Hydrogen energy.	7	3
b.	Discuss the effects of Industries on Environment and Mining on Environment.	7	4
c.	What is Rain water harvesting? Discuss its advantages and limitations.	7	4
d.	Explain in detail Water pollution, Soil pollution.	7	3
e.	What are Pollutants or Environmental Pollutants? Discuss their types.	7	4

SECTION C

3. Attempt any *one* part of the following: 7X1= 7

Q No.	Question	Marks	CO
a.	Discuss Carbon Cycle and Nitrogen cycle.	7	3
b.	Write a short note on Bio diesel. Advantages and dis-advantages of Bio-diesel.	7	4

4. Attempt any one part of the following:**7X1= 7**

Q No.	Question	Marks	CO
a.	What is Bio-diversity? Name the different levels of Bio-diversity. Or What are the steps involved in Disaster Management?	7	3
b.	What is meant by hot spot of Bio-diversity? Discuss the threats of Bio-diversity. What is impact of Bio-diversity loss?	7	4

5. Attempt any one part of the following:**7X1= 7**

Q No.	Question	Marks	CO
a.	Write a short note on- (i) Forest resources (ii) Over exploitation of forest (iii) Hazards of de-forestation	7	5
b.	What is water logging and salinization? Explain soil erosion?	7	4

6. Attempt any one part of the following:**7X1= 7**

Q No.	Question	Marks	CO
a.	Discuss the energy flow in the eco-system with suitable diagram.	7	4
b.	Write a short note on Forest eco system, Grassland eco-system, Desert eco-system or Terrestrial eco-system.	7	5

7. Attempt any one part of the following:**7X1= 7**

Q No.	Question	Marks	CO
a.	What is Noise pollution? Explain different methods to minimize Noise pollution. Describe its effects on humans?	7	4
b.	Describe in detail Air Pollution Act 1981. Define air pollution and its effect on human health, plants and animals.	7	5