

7E1711	Roll No. _____	[Total No. of Pages : 2]
	7E1711	
	B.Tech. VII Sem. (Main / Back) Examination, January - 2023	
	Open Elective-I 7AG6-60.2 Environmental Engineering and Disaster Management	

Time : 3 Hours

Maximum Marks : 120
Min. Passing Marks : 42

Instructions to Candidates:

Attempt all ten questions from Part A, five questions out of seven from Part B and four questions out of five from Part C.

Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

Use of following supporting material is permitted during examination. (Mentioned in form No.205)

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PART - A

(Answer should be given up to 25 words only)

ALL questions are compulsory.

(10×2=20)

1. What do you mean by environment?
2. What are the characteristics of smoke?
3. What is sewage?
4. Enlist different types of pollutants.
5. Give the any four names of natural and man-made type of disaster.
6. What is importance of safe water supply system?
7. What is importance of sanitation?
8. What is disaster?
9. Write down different types of solid waste.
10. What is importance of disaster management?

PART - B

(Analytical/Problem solving questions)

Attempt any FIVE questions.

(5×8=40)

1. Describe different sources of water supply.
2. Describe physical characteristics of water.
3. What is air pollution? Explain harmful effects of air pollution on human being.
4. Describe the quality standards for drinking water as per Indian Standards.
5. Describe different types of sewer.
6. Explain different types of air pollutants with their properties.
7. Write a short note on disaster management cycle.

PART - C

(Descriptive/Analytical/Problem solving/Design Questions)

Attempt any FOUR questions.

(4×15=60)

1. Explain domestic waste water treatment process.
 2. Describe various techniques of waste processing and methods of disposal.
 3. Describe the various techniques and methods for controlling air pollution.
 4. Describe different types of disaster.
 5. Describe the various classification of solid waste.
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