

**7E1811**

Roll No. \_\_\_\_\_

Total No. of Pages: **2****7E1811****B. Tech. VII - Sem. (Main / Back) Exam., - 2024****Open Elective – I****7AG6-60.2 Environmental Engineering and Disaster  
Management****Time: 3 Hours****Maximum Marks: 70***Instructions to Candidates:*

*Attempt all ten questions from Part A, five questions out of seven questions from Part B and three questions out of five questions 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)*

1. NIL2. NIL**PART – A****[10×2=20]****(Answer should be given up to 25 words only)****All questions are compulsory**

- Q.1 What is the importance of safe water supply?  
Q.2 What are the standard of drinking water?  
Q.3 What is solid waste?  
Q.4 What are the different types of pollutions?  
Q.5 What is disaster management?  
Q.6 What do you mean by wastewater?  
Q.7 Define chemical oxygen demand.

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- Q.8 Define total organic carbon.
- Q.9 What are the physical & chemical parameter of the water quality?
- Q.10 What are the different types of pollutant in wastewater?

**PART – B**

[5×4=20]

**(Analytical/Problem solving questions)**

**Attempt any five questions**

- Q.1 What is hardness? Define Dissolve oxygen and Biological oxygen demand.
- Q.2 Why soiling and corrosion are hidden cost of air pollution? Explain.
- Q.3 How do individual contaminants affects human health? Explain it.
- Q.4 Differentiate between natural and man-made pollution with examples.
- Q.5 Discuss the role of green house in disaster management.
- Q.6 Explain term Air Pollution. Discuss the types of air pollutants which causes air pollutions.
- Q.7 Write the different step involve in domestic wastewater treatment plant.

**PART – C**

[3×10=30]

**(Descriptive/Analytical/Problem Solving/Design Questions)**

**Attempt any three questions**

- Q.1 What is landslide? What are the causes of landslide? Explain.
- Q.2 Explain term deforestation. Discuss the factors promoting deforestation.
- Q.3 Discuss the treatment methods of effluent domestic water, wastewater and industrial wastewater.
- Q.4 What are the different BIS standard for pollutants in air? Explain it.
- Q.5 Discuss manmade disaster due to lack of public awareness. Explain relationship between national security and disaster.