

M.Tech. Second Semester (Chemical Engineering) (CBS)

13015 : Elective - II : Environmental Engineering & Waste Management : 2 CE 5

P. Pages : 1

Time : Three Hours



AU - 3285

Max. Marks : 80

- Notes :
1. All questions carry marks. as indicated.
 2. Answer in all **six** questions.
 3. Due credit will be given to neatness and adequate dimensions.
 4. Diagrams and Chemicals equations should be given wherever necessary.
 5. Illustrate your answer necessary with the help of neat sketches.
 6. Discuss the reaction, mechanism wherever necessary.
 7. Use of pen Blue/Black ink/refill only for writing the answer book.

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|-----|---|----|
| 1. | Discuss in detail the factors responsible for the deterioration of environment. | 13 |
| 2. | What are the different types of ESP's? Explain the wire in tube type of ESP in detail. | 13 |
| 3. | How can the fuel modification improve air quality? Explain in detail the causes of deteriorating air quality. | 13 |
| 4. | What is bio-medical waste? Discuss in detail a case study on disposal of bio-medical waste. | 13 |
| 5. | Why is biological treatment awarded to wastewater? Explain in detail biological oxidation or oxidation ditches. | 14 |
| 6. | Why is the conservation of water necessary? What are the steps to be taken to conserve water. | 13 |
| 7. | What the chemical methods of treatment of wastewater? Explain them in detail. | 13 |
| 8. | What is zero liquid discharge? What are its advantages and disadvantages to environment. | 13 |
| 9. | What is a sanitary landfill? Why is landfilling method facing increasing public opposition? Discuss in detail. | 13 |
| 10. | Discuss in detail the role of engineers and Industry in environment protection. Explain with suitable examples. | 14 |

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