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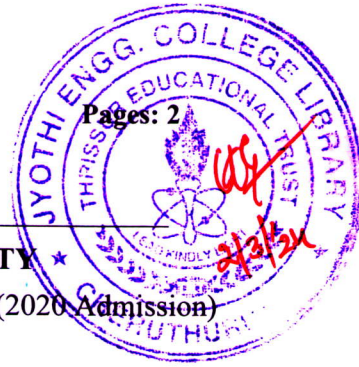
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Reg No.: _____

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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Seventh Semester B.Tech Degree (Honours) Examination December 2023 (2020 Admission)



Course Code: CET499

Course Name: ENVIRONMENTAL POLLUTION CONTROL TECHNIQUES

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 3 marks.

Marks

- | | | |
|----|---|-----|
| 1 | Distinguish between primary and secondary air pollutants. | (3) |
| 2 | List the various techniques used for control of particulate pollutants from stationary sources. | (3) |
| 3 | What are the different sources of water pollutants? | (3) |
| 4 | Write short notes on sedimentation process. | (3) |
| 5 | Explain the physical characteristics of Industrial wastes. | (3) |
| 6 | Explain how neutralization of waste is done? | (3) |
| 7 | List the various types of solid waste. | (3) |
| 8 | What are the factors to be considered in composting? | (3) |
| 9 | Explain Environmental Management Plan. | (3) |
| 10 | List the various environmental laws in India. | (3) |

PART B

Answer any one full question from each module, each carries 14 marks.

Module I

- 11 a) Explain with a neat sketch, the working of a gravitational settling chamber. Also state its merits and demerits (14)

OR

- 12 a) Explain any two methods to control gaseous air pollutants. (8)
- b) What do you mean by AQI? Explain the various levels of AQI. (6)

Module II

- 13 a) Write a short note on skimming tanks (8)
- b) Explain the effects of water pollution? (6)

OR

- 14 a) Explain with a neat sketch, the working of an activated sludge process. State the merits and demerits of the process as well. (14)

Module III

- 15 a) Explain equalization and proportioning for treating industrial wastes (14)

OR

- 16 a) Explain High-Rate Anaerobic Treatment method for treating industrial wastes. (14)

Module IV

- 17 a) What are the advantages and disadvantages of Composting? (10)

- b) What are the different waste minimization strategies? (4)

OR

- 18 a) Compare Indore method and Bangalore method. (14)

Module V

- 19 a) Discuss the Environment (Protection) Act, 1986. (14)

OR

- 20 a) Discuss the Water (Prevention and Control of Pollution) Act, 1974 (7)

- b) What are the functions of Central Pollution Control Board? (7)
