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GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-IV(NEW) - EXAMINATION - SUMMER 2019

Subject Code:2143609 Date:20/05/2019

Subject Name: Industrial Pollution & Control

Time:02:30 PM TO 05:00 PM Total Marks: 70

Instructions:

1. Attempt all questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

| | | | MARKS |
|------------|------------|-------------------------------------------------------------------|-------|
| Q.1 | (a) | Define solid waste, Air Pollution and field capacity. | 03 |
| | (b) | Write seven copies of Manifest | 04 |
| | (c) | Explain different categories of Biomedical Waste. | 07 |
| Q.2 | (a) | Describe sources of solid waste. | 03 |
| | (b) | Explain in detail Multiple Effect Evaporator. | 04 |
| | (c) | Discuss liquid waste treatment in drug industry. | 07 |
| | | OR | |
| | (c) | Explain solid waste management in pharmaceutical industry. | 07 |
| Q.3 | (a) | Describe primary and secondary pollutants. | 03 |
| | (b) | Describe synthetic organic compounds and oil. | 04 |
| | (c) | Explain in detail Cyclone Separator with a neat sketch. | 07 |
| | | OR | |
| Q.3 | (a) | Describe working principle of scrubber. | 03 |
| | (b) | Define fog, dust, smoke and mist. | 04 |
| | (c) | Explain solid waste treatment in Energy Industry | 07 |
| Q.4 | (a) | What are advantages and Disadvantages of Gravity Settling Chamber | 03 |
| | (b) | Describe chemical characteristics of solid waste. | 04 |
| | (c) | Explain liquid waste treatment in Glass Industry. | 07 |
| | | OR | |
| Q.4 | (a) | Define BOD, COD and influent. | 03 |
| | (b) | Describe significant features of landfill. | 04 |
| | (c) | Explain liquid waste treatment in textile industry. | 07 |
| Q.5 | (a) | Explain liquid waste treatment in rubber industry. | 03 |
| | (b) | Describe in detail Incineration. | 04 |
| | (c) | Describe outline of effluent treatment plant. | 07 |
| | | OR | |
| Q.5 | (a) | Describe primary treatment of wastewater. | 03 |
| | (b) | Write down the advantages & disadvantages of ESP. | 04 |
| | (c) | Explain solid waste treatment in polymer industry | 07 |
