

M.E (M) Thermal Engg II
Environmental Engg & Thermal Pollution BB-5772

May 09 HP 115
Con. 3166-09.

Page 04 Hours)

[Total Marks : 100

M. D. J. D. J.

- N.B. : (1) Question No. 1 is compulsory.
 (2) Answer any **four** from remaining **six** questions.
 (3) Assume **suitable** data wherever **required**.
 (4) Illustrate your answer with **sketches**.

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|--------|---|----|
| 1. (a) | Classify the municipal solid wastes. | 8 |
| (b) | Explain their physical and chemical composition. | 8 |
| (c) | Clarify the situation in the context of changing Mumbai. | 4 |
| 2. (a) | How do you classify the air pollutants ? | 4 |
| (b) | Explain the methods and corresponding equipments for control of air pollution. | 16 |
| 3. (a) | Write the characteristics of dairy waste water. | 6 |
| (b) | Name and explain the various methods of treatment of dairy effluent. | 10 |
| (c) | Mention the statutory requirement of control. | 4 |
| 4. (a) | Name the sources of noise pollution. | 4 |
| (b) | Clarify the negative impacts of noise pollution. | 6 |
| (c) | Mention the important steps of prevention and control of noise pollution. | 10 |
| 5. (a) | Explain the processes and name corresponding equipments for energy recovery from municipal solid wastes. | 10 |
| (b) | Mention briefly the methods of disposal of radioactive wastes. Can you mention a few important steps for control of radioactive pollution ? | 10 |
| 6. (a) | How do you conceptualise the removal of nutrients from pollution water through advanced treatment plants. | 10 |
| (b) | What do you understand by acid rain ? Name the adverse effects and possible remedial measures. | 10 |
| 7. | Write short notes on any four :- | 20 |
| (a) | Ambient air quality standards | |
| (b) | Reduction of thermal pollution | |
| (c) | Negative impacts of pesticides in nature | |
| (d) | Control of soil pollution through solid waste management. | |
| (e) | Leachate and control | |
| (f) | Sanitary land fill. | |