

Roll No. ....

Total Pages : 02

**BT-7/M-20**

**37179**

**ENVIRONMENTAL POLLUTION AND  
ABATEMENT  
ME-437N, Opt. I**

Time : Three Hours]

[Maximum Marks : 75

**Note** There are eight questions in this paper. Attempt questions in all, selecting one question from each Section. All questions carry 15 marks each.

**Section A**

1. (a) Write the various causes of environment pollution. **7½**  
(b) Describe in brief Noise emission and effluents.
2. (a) Write short notes on environment from chemical process industries. **9**  
(b) Explain in detail the standards of ambient air.

**Section B**

3. (a) Write a technical note on recovery of co-product from industrial emissions. **6**

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**1**

- (b) Explain in detail material energy balance for pollution minimization. **9**
4. (a) Discuss process modification and alternative raw material for pollution prevention. **7**
- (b) Describe in brief gaseous emission control by absorption and adsorption. **8**

### Section C

5. (a) Explain in detail on Coagulation and Flocculation. **8**
- (b) Discuss in detail pretreatment of water pollution control. **7**
6. (a) Write short note on waste water management.
- (b) Write a technical note on physical treatment and pretreatment of water pollution control. **7**

### Section D

7. (a) Explain in detail composting, landfill and briquetting. **8**
- (b) Discuss in brief aeration systems. **7**
8. Write short notes on the following : **3×5=15**
- (a) Briquetting
- (b) Sludge separation and drying
- (c) Design of cyclones.