

Third Semester M. Sc. (Part - II) Examination

ENVIRONMENTAL SCIENCE

Paper - XII

(Pollution Control Technology)

P. Pages : 3

Time : Three Hours]

[Max. Marks : 80

-
- Note :** (1) All questions are compulsory and carry equal marks.
(2) Draw well labelled diagrams wherever necessary.

1. (a) Explain with the help of Diagram Gravitational settling chambers. 6
- (b) Explain control of SO_x and NO_x pollution, any one method of each. 5
- (c) Explain method to control crankcase and fuel tank emissions. 5

OR

- (d) Explain with the help of diagram electrostatic precipitation. 6
- (e) Explain crankcase exhaust emission and evaporative emissions. 5
- (f) Control of PAN . 5

2. (g) Explain primary treatment for the Industrial waste water. 6
- (h) Explain trickling filter. 5
- (i) Explain activated sludge process. 5

OR

- (j) Explain the need for the waste water treatment. 6
- (k) Describe any two sludge disposal methods. 5
- (l) Explain aerated lagoon with its advantages. 5

3. Describe various treatments for the waste water from sugar Industry with its flow diagram.

OR

Explain operation and designing of effluent treatment plant. 16

4. Explain in brief radiation pollution its sources and effects. Write a note on Nuclear Dilemma.

OR

Explain physiological and psychological effects of noise pollution. Write a note on noise control in industries. 16

5. (m) Explain urban solid waste management. 6
- (n) Explain incineration method for solid waste management. 5
- (o) Explain the concept of Recycling and reuse of solid waste. 5

OR

- (p) Explain pyrolysis method for solid waste treatment with diagram. 6
- (q) Explain need for solid waste management. 5
- (r) Explain solid waste compaction. 5

