

22511

23124

3 Hours / 70 Marks

Seat No.

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- Instructions* –
- (1) All Questions are *Compulsory*.
 - (2) Answer each Section on same / separate answer sheet.
 - (3) Answer each next main Question on a new page.
 - (4) Illustrate your answers with neat sketches wherever necessary.
 - (5) Figures to the right indicate full marks.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. **Attempt any FIVE of the following:** **10**
 - a) Enlist causes of Global Warming.
 - b) State effect of ozone depletion.
 - c) Enlist man made sources of air pollution.
 - d) Draw neat sketch of Bag filter.
 - e) Define pH.
 - f) State importance of ISO 14000.
 - g) List out any two application of RO in waste water treatment.

2. **Attempt any THREE of the following:** **12**
 - a) Describe Green House effect.
 - b) Discuss effect of air pollution on human health.
 - c) Describe the Love Canal episode.
 - d) State role of Central Pollution Control Board.

P.T.O.

- 3. Attempt any THREE of the following:** **12**
- a) Compare Catalytic convertor and Thermal incineration.
 - b) State 3R principle for solid waste management.
 - c) Draw neat sketch of activated sludge treatment method.
 - d) Describe with neat sketch cyclone separator.
- 4. Attempt any THREE of the following:** **12**
- a) Describe in detail food chain.
 - b) State hazardous effect of Biomedical waste.
 - c) Describe process of collection of solid waste. (any one)
 - d) Describe froth flotation process with neat diagram.
 - e) Explain water pollution and control act 1996.
- 5. Attempt any TWO of the following:** **12**
- a) Describe with neat sketch of Electrostatic precipitation.
 - b) Describe in detail sanitary landfill method.
 - c) Compare primary, secondary and tertiary water treatment method.
- 6. Attempt any TWO of the following:** **12**
- a) Describe Carbon Cycle with neat diagram.
 - b) Describe in details wet scrubber with neat diagram.
 - c) Explain the BOD and COD in details.
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