

22511

12425

03 Hours / 70 Marks

Seat No.

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- Instructions –*
- (1) All Questions are *Compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (7) 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) Define Ecology.
 - b) List four Air Pollutants.
 - c) List any four equipment used for control of gaseous pollutants.
 - d) Define C. O. D.
 - e) State the physical characteristics of waste water.
 - f) Give any four benefit of ISO 14000.
 - g) What is meaning of 3R.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Explain Terrestrial Ecosystem.
 - b) State effects of Air pollution on Human Health.
 - c) State Role of state pollution control board.
 - d) Explain 3R Principle in solid waste management.
- 3. Attempt any THREE of the following:** **12**
- a) Explain structure of Eco-system with neat sketch.
 - b) Draw labelled sketch of Cyclone Separator.
 - c) Explain sources of Water Pollution.
 - d) Explain disposal method of Hazardous waste.
- 4. Attempt any THREE of the following:** **12**
- a) Explain Carbon Cycle with neat sketch.
 - b) Write any four features of Air Pollution Control Act 1981.
 - c) Explain use of membrane technology for treatment of waste water.
 - d) Explain term
 - i) Dissolved solids
 - ii) Total solids
 - e) Explain food chain and food web.
- 5. Attempt any TWO of the following:** **12**
- a) Describe Air Pollution controlling method by using wet scrubber.
 - b) Draw diagram of trickling filter and list any four advantages.
 - c) Explain the environmental management in chemical industry.

6. Attempt any TWO of the following:**12**

- a) Write working of catalytic convertor with neat diagram.
 - b) Explain Activated Sludge treatment with diagram.
 - c) Explain energy recovery method from solid waste.
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