

22511

11920

3 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) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

- 1. Attempt any FIVE of the following: 10**
- Define Ecology.
 - Write Biotic and Abiotic Components.
 - List four air pollutants.
 - List any four pollutants emitted from nitric acid plant.
 - Define COD.
 - Write any four water pollutants.
 - Write two function of pollution control board.
- 2. Attempt any THREE of the following: 12**
- Explain Terrestrial ecosystem.
 - Describe effects of air pollution on human health.
 - Explain Biomedical waste.
 - Write any four feature of air quality act 2004.

P.T.O.

- 3. Attempt any THREE of the following:** **12**
- a) Draw a labelled sketch of cyclone separator.
 - b) Explain working of Thermal Incinerator (Flare)
 - c) Explain the application of froth floatation in waste water treatment.
 - d) Explain reuse and recovery.
- 4. Attempt any THREE of the following:** **12**
- a) Explain nitrogen cycle with neat sketch.
 - b) Write any one method to recover energy from waste.
 - c) Describe love canal episode.
 - d) List any four benefits of ISO 14000.
 - e) Explain activated sludge treatment in waste water treatment.
- 5. Attempt any TWO of the following:** **12**
- a) Explain membrane separation technology.
 - b) Explain working of bag filter with sketch.
 - c) With neat sketch describe sanitary landfill method.
- 6. Attempt any TWO of the following:** **12**
- a) Explain food chain and food web.
 - b) Write working of catalytic convertor with neat diagram.
 - c) Explain trickling filter with diagram.
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