

17686

11920

3 Hours / 100 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Figures to the right indicate full marks. Abbreviations used, convey usual meaning.

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|--|-------------------|
| 1. Answer any FIVE : | 5 × 4 = 20 |
| (a) Explain the terms : | |
| (i) Environment | |
| (ii) Ecosystem | |
| (b) (i) Define 'desizing'. | (1) |
| (ii) How does the process cause water pollution ? | (3) |
| (c) Describe the types of plume behaviour based on atmospheric conditions. | |
| (d) Write in general, 'steps' in effluent treatment plant. | |
| (e) State in general 'factors' responsible for causing fire hazards. | |
| (f) (i) Define 'occupational' health hazards. | (1) |
| (ii) Explain them in relation to textile industry. | (3) |
| 2. Attempt any TWO : | 2 × 8 = 16 |
| (a) (i) Describe 'Ozone layer depletion'. | |
| (ii) Explain its 'consequences'. | |

- (b) (i) Describe types of effluents coming from textile 'dyeing department'.
(ii) Explain a method of 'safe disposal' of the effluent.
- (c) Write working principle of 'reverse osmosis' and describe the process.
- 3. Attempt any TWO : 2 × 8 = 16**
- (a) Describe the effect of 'textile processing' on water pollution and its impact on 'aquatic life'.
- (b) (i) Name 'sources of noise' emitted in textile industry. (2)
(ii) Explain their effect on staff working 'efficiency'. (6)
- (c) Describe test method for (i) COD (ii) TDS
- 4. Attempt any TWO : 2 × 8 = 16**
- (a) (i) Define : (3)
(1) COD
(2) DO
(3) TSS
(ii) Explain consequences of 'deforestation'. (5)
- (b) Describe with reactions, effect of any two air (gas) pollutants emitted by textile industry.
- (c) Explain design aspects of effluents treatment plant in textile industry.
- 5. Attempt any TWO : 2 × 8 = 16**
- (a) Describe type of pollutants coming from bleaching process in the effluent. Write its remedial measures.
- (b) Describe two 'remedial measures' to control 'air pollution'.
- (c) (i) Explain factors responsible for various accidents in textile industry. (6)
(ii) Name methods to control them. (2)

6. Attempt any FOUR :**4 × 4 = 16**

- (a) Explain concepts of ISO 14000 series.
 - (b) Explain the terms :
 - (i) Scouring
 - (ii) Mercerisation
 - (c) Describe a method to reduce noise level in textile industry.
 - (d)
 - (i) Define 'BOD'
 - (ii) Write 'norms' as per the pollution control board.
 - (e)
 - (i) Name various types of 'electrical hazards'.
 - (ii) State 'precautions' to be taken.
 - (f)
 - (i) Name two chemicals used in wet processing along with their associated hazards.
 - (ii) Write their Safety norms.
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