

17686

21415

3 Hours / 100 Marks

Seat No.

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- Instructions :** (1) All Questions are *compulsory*.
(2) Illustrate your answers with neat sketches wherever necessary.
(3) Figures to the right indicate full marks.

Marks

1. Attempt any TEN :

20

- (a) Define pollutants and state its types.
- (b) Define ozone layer depletion.
- (c) Define 'scouring'.
- (d) What do you mean by "Water Pollution" ?
- (e) State any two effects of water pollution on aquatic life.
- (f) List out the greenhouse gases.
- (g) Define "Reverse Osmosis".
- (h) List out the steps involved in ETP.
- (i) Name any two modern methods of Effluent Treatment Plant.
- (j) List out the common hazards associated with textile industry.
- (k) Name any three causes of fire in textile industry.
- (l) Name any four safety tools associated with electrical safety in a chemical processing industry.
- (m) Define occupational safety with an example.
- (n) How does finishing dept. adds to water pollution ?

2. Attempt any FOUR :

16

- (a) Define BOD and state its significance.
- (b) Explain the effect of Desizing on water pollution. What is desizing ?
- (c) Explain 'Plume Behaviour'.
- (d) What is noise pollution ? Explain its impact on human work.
- (e) Draw a basic design of effluent treatment plant in textile industry.
- (f) Define COD. How is it tested ?

P.T.O.

- 3. Attempt any FOUR :** **16**
- (a) Explain any four effects of air pollution on vegetation.
 - (b) List out the sources of noise pollution in textile industry.
 - (c) Justify the need of ETP in textile industry.
 - (d) Define TDS and explain its determination method.
 - (e) State and explain any four remedies to over fire in textile industry.
 - (f) Write the names of eight chemicals used in wet processing.
- 4. Attempt any FOUR :** **16**
- (a) Define TSS and DO. Give significance of both.
 - (b) Explain the effect of printing on water pollution.
 - (c) Explain any four remedies to control air pollution.
 - (d) Explain the concept of common effluent treatment plant in brief.
 - (e) Name the common accidents that generally occurs in a textile industry.
 - (f) Explain any four health hazards associated with textile processing.
- 5. Attempt any FOUR :** **16**
- (a) Explain Global Warming. How does it affect our daily life ?
 - (b) Explain the effect of bleaching on water pollution and state two remedies to minimize water pollution.
 - (c) Explain any four effects of water pollution on human health in general.
 - (d) Explain any four effects of air pollution on human health.
 - (e) Write the principle of multi evaporators and state its two advantages.
 - (f) Write the standard norms as per the Pollution Control Board for BOD, COD, TDS & TSS in textile industry (values only).
- 6. Attempt any FOUR :** **16**
- (a) Explain the effects of deforestation in brief.
 - (b) Write about the concept of ISO 14000 series.
 - (c) Explain how does water get polluted due to :
 - (i) Scouring
 - (ii) Mercerization
 - (d) State any four methods of reducing noise pollution in textile industry.
 - (e) State any four remedies to overcome accidents in textile industry.
 - (f) Write a note on electrical safety in textile industry.
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