

17686

21819

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) 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 :

20

- (a) Write a detailed note on Ozone layer depletion.
- (b) Explain the effect of desizing on the various parameters of effluent. Also provide its remedies (any four parameters).
- (c) Write a note on the various remedies adopted to control air pollution.
- (d) What are different sources of noise pollution in textile wet processing industry ?

- (e) Write the procedure of finding TDS and TSS present in effluent.
- (f) Write a note on the “Environmental Management System” (EMS). Also mention its significance.
- (g) What are the effects of mercerization on effluent generated ? What precautions are taken to meet the pollution control board norms ?
- (h) Explain in detail ‘Plume behaviour’.

2. Attempt any TWO :**16**

- (a) Explain the effect of water pollution on human health and aquatic life also.
- (b) With a neat labelled diagram, describe the various steps involved in the effluent treatment plant.
- (c) Write a detailed note on occupational health and safety management in textile processing industry.

3. Attempt any TWO :**16**

- (a) With one example, define and explain the terms “BOD”, “COD”, “TDS” & “TSS”.
- (b) What are the various air pollutants emitted by the textile industry ? What is its effect on human health and vegetation ?
- (c) Write a note on the different chemicals used in the different wet processing depts. of textiles. Write the safety norms of the same.

4. Attempt any TWO :**16**

- (a) Explain the various undesirable effects of dyeing & printing on the water pollution. Also mention their remedies to overcome the effects.
- (b) Write the procedure for determining the BOD & COD of textile effluents.
- (c) Enlist the factors responsible for the various accidents in textile wet processing. Also, write the methods to overcome the accidents.

5. Attempt any TWO :**16**

- (a) Define the term 'Pollution'. What are the different types of pollution ? Explain its toxicological aspects in chemical processing.
- (b) Explain the effect of noise pollution on human health and efficiency of a process. Also explain the methods of reducing the noise pollution in textile industry.
- (c) With a neat labelled diagram, explain the 'Reverse Osmosis' and 'Multi stage evaporators' used for treating the textile effluents.

6. Attempt any TWO :**16**

- (a) What are the various undesirable effects of 'bleaching' and 'finishing' on the water pollution ? Write the remedies to overcome the same.
 - (b) Write a detailed note on 'Common Effluent Treatment Plant'. Write any two advantages and two limitations of the same.
 - (c) Write a note on the four accidents observed in textile industry. What precautions are to be taken to overcome these problems ?
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