17686

16172

3 Hours / 100 Marks Seat No. | | | | | | | | |

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 – BOD.

b) Define – Mercerization.

c) List out the steps involved in ETP.

d) Name any two modern methods of ETP.

e) Define occupational diseases.

f) What is PPE ?

g) What is deforestation ?

h) Define TSS. Give significance of TSS.

i) Define DO. Give significance of DO.

j) Define pollutants and state its types.

k) Define water pollution.

l) Define vegetation.

m) List the places where CETP installed.

n) Define Effluent.

2. Attempt **any four** : **(4×4=16)**

a) What is electrical safety ? Write the use of safety aids and tools for electrical safety in textile industry.

b) What is Hazard ? Write down hazards involved in Textile industry with their potential.

c) Which factors are responsible for various accidents in textile industry ? How to control these accidents ?

d) What is Fire ? List out the factors responsible for fire in textile industry. How to control it ?

e) List out different chemicals with their hazards in wet processing.

f) State the importance of occupational health and safety management in textile industry.

P.T.O.

Marks

3. Attempt **any four** : **(4×4=16)**

a) Write the standards norms as per pollution control board for BOD, COD, TDS, TSS in textile industry.

b) What is TDS ? How to determine TDS ?

c) Explain the experimental procedure to determine BOD in detail.

d) Define – Noise Pollution. List out the sources of noise pollution in textile industry.

e) List out the effects of noise on human health and human efficiency.

f) How to minimize the noise in textile industry ?

4. Attempt **any four** : **(4×4=16)**

a) What is Reverse Osmosis ? What is the role of R.O. in effluent treatment plant ?

b) What is Common Effluent Treatment Plant (CETP) ? Compare CETP with ETP.

c) What is ETP ? Explain design of ETP in textile industry.

d) What is Multiple Effect Evaporator System ? How to use MEE system in ETP ?

e) What are Green house gases ? Explain their sources and effects on human health and animals.

f) List out the air pollutants emitted by textile industry with their sources.

5. Attempt **any four** : **(4×4=16)**

a) Explain different mechanism to control air pollution.

b) Write a short note on plume behaviour.

c) Explain concept of ISO 14000 series.

d) What are the effects of water pollution on human health and aquatic life ?

e) How water gets polluted due to desizing and scouring process of textiles ?

f) Explain the effect of bleaching on water pollution and state two remedies to minimize water pollution.

6. Attempt **any four** : **(4×4=16)**

a) What is global warming ? Explain with neat diagram.

b) What is mean by ozone layer depletion ? How to reduce it ?

c) What is dyeing ? What is the effect of dyeing on water ? How to reduce water pollution due to dyeing ?

d) Explain chemical finishing process in textile industry. How to reduce water pollution in chemical finishing process ?

e) Explain printing process in textile industry. How latest technology can be used to minimize the water pollution from printing department ?

f) Write a short note on Toxicological aspects in chemical processing.

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