



17686

11819

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.*
(4) *Abbreviations used, convey usual meaning.*

Marks

1. Answer any five :

(5×4=20)

- Define :
 - environment
 - pollution
 - pollutant
 - effluent.
- Explain with examples, how 'bleaching process' cause water pollution.
- Describe 'plume behaviour'.
- Write purpose of common effluent treatment plant. State its advantages.
- Define and write standard norms as per pollution control board for :
 - T.S.S.
 - B.O.D.
- Name safety tools and aids associated with electrical safety in chemical processing industry.
- Explain the term : occupational health hazard. State type of them in relation to textile industry.

2. Answer any two :

(2×8=16)

- Describe in general adverse effects of water pollution on :
 - human health
 - aquatic life.
- Describe methods to control air-pollution.
- How does 'reverse osmosis' differ from conventional osmosis ? **3**
 - Describe use of reverse osmosis in treatment of effluent from textile industry. **5**

3. Answer any two :

(2×8=16)

- Define the following and explain their effects :
 - global warming
 - deforestation.

P.T.O.

**Marks**

- b) i) Name air pollutants emitted by textile industry. **2**
ii) Explain their adverse effects on vegetation. **6**
- c) Describe method of testing :
i) C.O.D.
ii) T.D.S.
- 4. Answer any two :** **(2×8=16)**
- a) i) Write full form of I.S.O. Explain its purpose. **3**
ii) Explain in general, preparative (documentation) work needed for I.S.O. 14000
artification. **5**
- b) Describe effects of :
i) Printing-operation
ii) Finishing-operation in textiles on water pollution.
- c) Describe basic design of effluent treatment plant in textile industry.
- 5. Answer any two :** **(2×8=16)**
- a) Describe remedial measures for water pollution.
b) Explain sources of noise pollution in textile industry.
c) i) State factors, responsible for fire in textile industry.
ii) Explain remedies to overcome fire accidents.
- OR
- Describe use of any one type of fire-extinguisher.
- 6. Answer any four :** **(4×4=16)**
- a) i) Define toxicity. **1**
ii) State in general toxilogical aspects in chemical industry. **3**
- b) Explain the terms :
i) Scouring
ii) Mercerisation.
- c) Noisy environment can affect working efficiency. Explain.
d) Explain factors responsible for accidents in textile industry.
e) Name four chemicals used in wet processing. Write their 'safety norms'.
f) Explain functions of 'safety management' in a chemical industry.
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