

**UNIT - IV**

4. (a) Explain the following in detail :
- Green house effect.
  - Pollution due to oxides of sulphur.
  - Organic pollutants in water pollution.
- (6 + 7 + 7)

(OR)

- (b) Discuss the following :
- Hydrological cycle.
  - Effects of pollution of water streams.
  - Energy resources.
- (6 + 7 + 7)

**UNIT - V**

5. (a) (i) Explain in detail how solid and liquid wastes in industries can be disposed ?
- (iii) Give an account of methods of assessment of industrial pollution.
- (10 + 10)

(OR)

Register Number :

Name of the Candidate :

**5 2 5 1****B.Sc. DEGREE EXAMINATION, 2008**

(APPLIED CHEMISTRY)

(THIRD YEAR)

(PART - III - A - MAIN)

(PAPER - VIII)

**740. APPLIED CHEMISTRY - II**

December ]

[ Time : 3 Hours

Maximum : 100 Marks

*Answer ALL questions.**All questions carry equal marks.***UNIT - I**

1. (a) (i) State and explain Raoult's law.
- (ii) Give an account of fractional distillation.

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- (iii) Explain the methods of drying of solid organic compounds.

(6 + 7 + 7)

(OR)

- (b) Discuss the following :

- (i) Steam distillation.
- (ii) Vacuum evaporation and its advantages.
- (iii) Pressure operations in filtration of compounds. (6 + 7 + 7)

#### UNIT - II

2. (a) (i) What is load cell displacement ? - Explain.

- (i) Explain how thermal and radiant energy properties are useful in instrumentation and control.

- (ii) Discuss force balanced device measurement of pressure.

(6 + 7 + 7)

(OR)

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- (b) (i) What are static and dynamic characteristics of measuring instruments ?

- (i) Discuss the following :

(I) Flow measurements of solids.

(II) Flow charts in chemical processes. (6 + 14)

#### UNIT - III

3. (a) Give a detailed account of the following:

- (i) Safety methods to be followed for industry safety.

- (ii) Handling of types of fires. (10 + 10)

(OR)

- (b) Discuss the following in detail :

- (i) Damage minimisation and control in industrial safety.

- (ii) Detoxification. (10 + 10)

**Turn over**

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- (b) (i) Give a detailed account of how industrial pollution affects the environment.
- (iii) Explain how gaseous wastes can be disposed in industries. (10 + 10)

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- (b) (i) Give a detailed account of how industrial pollution affects the environment.
- (iii) Explain how gaseous wastes can be disposed in industries. (10 + 10)

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