

1128

B.A./B.Sc.(General)-5th Semester**Industrial Chemistry**

Paper – A

Time allowed: 3 Hours

Max. Marks: 75

NOTE: Attempt five questions in all, including Question No. IX (Unit-V) which is compulsory and selecting one question from each Unit.

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UNIT – I

- I. (a) Discuss various factors involved in project cost estimation.
(b) Explain the economics of selecting alternatives. (8+7)
- II. Write complete notes on the following: -
(a) Marketing pricing policy
(b) Optimum batch sizes
(c) Breakeven point (5+5+5)

UNIT – II

- III. (a) What is human resources management? Discuss its functions in detail.
(b) Explain Inventory Control. (10+5)
- IV. Write notes on the following: -
(a) Decision making
(b) Planning
(c) Organizing (5+5+5)

UNIT – III

- V. Discuss in detail principle, instrumentation and complete working of HPLC with help of neat sketch. (15)
- VI. Explain the following: -
(a) Techniques of sampling solids and liquids
(b) Rheological properties of liquid plastics (8+7)

UNIT-IV

- VII. (a) Discuss in detail about x-ray fluorescence.
(b) Write a note on Flame Photometry. (9+6)

P.T.O.

(2)

VIII. Write complete notes on the following:-

- (a) Ion-selective electrodes
 - (b) Neutron diffraction
- (8+7)

UNIT-V

IX. Write short notes on the following: -

- (a) Production scheduling
 - (b) Welfare and safety
 - (c) Particle size determination
 - (d) Ion Chromatography
- (3+3+4+5)

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