

2122

B.A./B.Sc. (General) Fifth 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 each from Unit I - IV.

x-x-x

UNIT - I

- I. a) Discuss in detail various factors involved in project cost estimation.
b) Explain the economics of selecting alternatives. (8,7)
- II. Write notes on the following:-
a) Break-even point
b) Profitability criteria
c) Production scheduling (3x5)

UNIT - II

- III. a) Discuss in detail functions of human resources management.
b) Explain inventory control. (9,6)
- IV. Write complete notes on the following:-
a) Materials management
b) Welfare and safety (8,7)

UNIT - III

- V. Discuss in detail principle, instrumentation and complete working of HPLC. Also draw neat sketch. (15)
- VI. Explain the following:-
a) Rheological properties of liquid plastics
b) Sampling of bulk materials (8,7)

UNIT - IV

- VII. Discuss the following in detail:-
a) X-ray fluorescence
b) Ion-chromatography (8,7)

(2)

VIII. Explain the following:-

- a) Atomic absorption
- b) Ion-selective electrodes

(7,8)

UNIT – V

IX. Answer the following:-

- a) Optimum batch sizes
- b) Location of industry
- c) Particle size determination
- d) Neutron diffraction

(3)

(4)

(4)

(4)

x-x-x