

2123
B.A./B.Sc. (General) Fifth Semester
Industrial Chemistry
Paper - A

Max. Marks: 75

Time allowed: 3 Hours

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) Explain various methods employed for the estimation of capital investment. (8,7)
b) Discuss economics of selecting alternatives.
- II. Discuss the following completely:-
a) Time value of money equivalence
b) Optimum batch sizes
c) Production scheduling (3x5)

UNIT - II

- III. a) What is human resources management? Discuss its functions in detail. (9,6)
b) Write in brief about inventory control.
- 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 with help of neat sketch. (15)
- VI. Explain the following:-
a) Rheological properties of liquid plastics
b) Write a note on sampling of bulk materials (8,7)

UNIT - IV

- VII. Discuss in detail about:-
a) X-ray fluorescence
b) Write a note on flame photometry (9,6)

(2)

VIII. Explain the following:-

- a) Ion-chromatography
- b) Ion-selective electrodes

(7,8)

UNIT - V

IX. Answer the following:-

- a) Marketing pricing policy (3)
- b) Neutron diffraction (4)
- c) Location of industry (4)
- d) Techniques of sampling liquids and gases (4)

x-x-x