

2124  
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. 9 (Unit-V) which is compulsory and selecting one question each from Unit I - IV.*

X-X-X

UNIT-I

1. (a) What are the factors involved in project cost estimation. Discuss properly.  
(b) Discuss Time value of money equivalence. (8,7)
2. Write notes on the following.  
(a) Optimum batch sizes  
(b) Production scheduling  
(c) Capital formation (5,5,5)

UNIT-II

3. (a) What is human resources management. Discuss its function in detail.  
(b) Write in brief about Inventory control. (9,6)
4. Write complete notes on the following.  
(a) Welfare and Safety  
(b) Materials management (7,8)

UNIT-III

5. (a) Discuss the instrumentation and application of GLC.  
(b) Write a note on sampling of bulk materials. (9,6)
6. Write notes on the following in detail.  
(a) Rheological properties of liquid plastics  
(b) Techniques of sampling solids and liquids (8,7)

UNIT-IV

7. (a) Discuss in detail about X-ray fluorescence.  
(b) Write in brief about Flame photometry. (9,6)
8. Describe the following.  
(a) Ion chromatography  
(b) Atomic absorption (7,8)

UNIT-V

9. Attempt the following in brief.  
(a) Break-even point  
(b) Incentives  
(c) Particle size determination  
(d) Neutron Diffraction (4,3,4,4)

X-X-X