

Uka Tarsadia University (Diwaliba Polytechnic)
Diploma in Chemical Engineering
Assignment (Industrial Management - 020020603)

Unit-1 Introduction to Industrial Management

2 marks

- 1] Define production and non production system.
- 2] Enlist internal variable of system.
- 3] State parameters of the system.
- 4] Define management.
- 5] State the four Indian labour laws.
- 6] Give the classification of the system.
- 7] Enlist characteristics of system.
- 8] List out external variable of system.
- 9] Give any four characteristics of management.
- 10] What is the provision of the minimum wages act?
- 11] List out the internal variable of system.
- 12] State the levels of management and the managers placed at each level.
- 13] Draw block diagram of system parameters.
- 14] What is system?

3 Marks

- 1] Explain b Describe open loop and closed loop system.
- 2] Explain provisions of the factories act 1948 regarding safety of workers.
- 3] Describe system behaviour in brief.
- 4] Explain factory act 1948 in detail.
- 5] What are the disadvantages of scientific management?
- 6] Write a short note on health of worker under factories act 1948.
- 7] Explain open loop and closed loop system in detail.
- 8] Write a short note on system variable.
- 9] What are the advantages of scientific management?
- 10] Write a short note on minimum wages act 1948.
- 11] Write a short note on scientific management.
- 12] Define system and its type and state its characteristics.
- 13] Explain various functions of management with diagram.
- 14] Describe principle of scientific management.
- 15] Discuss safety of workers under factories act 1948.

Unit-2 Organisation Structure and Organisational Dynamics

2 Marks:

- 1] Define the organizing function.
- 2] State the types of organizational structure.
- 3] State factors affecting job satisfaction.
- 4] Define job satisfaction.
- 5] Write down the disadvantages of line and staff organization.
- 6] What is span of control?
- 7] State the characteristics of job satisfaction.
- 8] Explain the sub principle of span of control.
- 9] What are the advantages of matrix organization?
- 10] Draw the diagram of level of organization structure.
- 11] Write down the demerits of functional organization.
- 12] Enlist the goals of the organization structure.
- 13] Define the meaning authority.

3 Marks:

- 1] Explain the relationship between moral and productivity.
- 2] Write short note on line organization.
- 3] Write short note on span of control.
- 4] State the factors that determine span of control.
- 5] What are the advantages of line and staff organization?
- 6] Discuss characteristics of organization culture.
- 7] Explain the factors affecting the employee moral.
- 8] Enlist the advantages of centralization in industrial management.
- 9] Differentiate between line organization and functional organization.
- 10] Write a short note on decentralization in industrial management.
- 11] Explain the concept of organization climate and explain its importance.
- 12] Explain the elements of internal environment.
- 13] Differentiate between line organization and line-staff organization.
- 14] Explain division of labour.
- 15] Write a short note on centralisation in industrial management.
- 16] Discuss level of management in organization with neat sketch.
- 17] Explain the factors affecting the employee moral.
- 18] Differentiate between line organization and line and staff organization.
- 19] Write a short note on centralisation in industrial management.
- 20] Define job satisfaction. State the characteristics of job satisfaction.

Unit-3 Materials Management

2 MARKS:

- 1] Which are the different methods for purchasing?

- 2] Enlist the functions of store-keeping.
- 3] What is material management?
- 4] What is the purchase procedure?
- 5] Give the various purchasing methods.
- 6] Define: store-keeping.
- 7] Define: Material management
- 8] State the objectives of purchases presented by 5 R's.
- 9] Give the importance of material management.
- 10] Draw block diagram of relationship of material management with other department.
- 11] Give the various purchasing methods.
- 12] What is MRP?
- 13] Enlist different purchasing methods.
- 14] What are the objective of inventory control?
- 15] Why material management is required in industries?

3 MARKS:

- 1] Discuss Kanban system in detail.
- 2] Explain economic order quantity in detail.
- 3] Write a short note on Two bin model.
- 4] Explain any one purchasing method in detail.
- 5] Explain Kanban concept in detail.
- 6] Write a short note on Just in time.
- 7] Explain Two bin model in detail.
- 8] Explain the classification of different types of material.
- 9] Enlist types of purchasing system and explain any one in brief.
- 10] Write a short note on material management.
- 11] Explain various purchasing method.
- 12] Give the list of important stores functions.
- 13] Critically explain the derivation of the EOQ formula
- 14] What is economic order quantity (EOQ)? Explain the EOQ concept.
- 15] Discuss: Two bin model.
- 16] Write a short note on Kanban.
- 17] State objectives of inventory control.
- 18] Explain ABC analysis.
- 19] Discuss Just in time & total quality management.

Unit-4 Production, Planning and Control

2 Marks:

- 1] Define production planning and control (PPC).
- 2] Give the formula of Economic Batch Quantity (EBQ) and explain the terms used in it.

- 3] State the limitations of Gantt Chart.
- 4] What is PPC?
- 5] Give formula of Critical Ratio method.
- 6] Define work study.
- 7] Give definition of routing in PPC.
- 8] Name types of scheduling techniques.
- 9] Define: Work study.
- 10] What is routing?
- 11] List out main functions of PPC.
- 12] What do you mean by therbligs?
- 13] What is critical ratio in scheduling?
- 14] Define the term EBQ.
- 15] List different types of production system.

3 Marks:

- 1] State the uses of production planning and control.
- 2] State various types of production systems with illustration of each of them.
- 3] Briefly explain Gantt Chart.
- 4] State the objectives of scheduling.
- 5] Explain any two types of production system.
- 6] Why scheduling is essential in production systems?
- 7] Write short note on function of PPC.
- 8] Discuss therbligs symbols.
- 9] Discuss about dispatching and follow up function of PPC.
- 10] What is important of production planning?
- 11] Write short note on continuous production system.
- 12] State the uses of Gantt chart in the scheduling.
- 13] What are the limitations of Gantt chart?
- 14] Discuss importance of Economic batch quantity.
- 15] Discuss basic work study procedure.
- 16] List advantage of continuous production system.
- 17] Write short note on importance of PPC.
- 18] Explain Batch production system with example.

Unit-5 Critical Path Method and Pre-Evaluation Review Technique

2 marks:

- 1] Explain the similarities and differences between CPM and PERT.
- 2] Explain advantages and limitations of network techniques in brief.
- 3] Explain term Activity and Event.
- 4] Write full name of EST and EFT.
- 5] Define Successor activity and predecessor activity.
- 6] Define the term slack.
- 7] Briefly discuss dummy activity.
- 8] Write equation for Expected time.

- 9] Write full name of CPM and PERT.
- 10] Briefly explain Optimistic time.
- 11] List the terms used in developing the network diagram.
- 12] What is the meaning of slack?
- 13] Define optimistic time.
- 14] What are the different terms used in developing a network diagram?

3 Marks:

- 1] Explain the process of drawing network diagram.
- 2] Explain importance of critical path with suitable example.
- 3] Explain the difference between Critical path method and Pre- evaluation review technique.
- 4] Explain the procedure for construction of network diagram
- 5] Discuss PERT as project management techniques.
- 6] Differentiate between CPM and PERT.
- 7] Explain critically evaluate application of network diagram in project management.
- 8] Write a short note on network diagram.
- 9] Write advantages of network techniques.
- 10] Discuss CPM as project management techniques.
- 11] Explain Concurrent activity and Successor activity with example.

Unit-6 Value Analysis

2 Marks:

- 1] Discuss the importance of value analysis.
- 2] What is a Tertiary function in value analysis?
- 3] Define value with suitable examples.
- 4] What is a Tertiary function in value analysis?
- 5] Give the 7 terms include in the nomenclature of DARSIRI method.
- 6] What is a cost value?
- 7] Enlist the steps of value analysis.
- 8] Define: Primary function
- 9] Define Esteem value.
- 10] Define value analysis and state its characteristics.
- 11] State the four stages of the flow diagram of the value analysis.
- 12] What is an exchange value?

3 Marks:

- 1] Explain primary function, secondary function and tertiary function in value engineering.
- 2] State various concepts of values used in value analysis.
- 3] Briefly explain following terms used in value analysis: i) Value ii) Function value iii) Esteem value
- 4] Write short note on DARSIRI method.
- 5] Explain the process of value analysis in form of flow chart.

- 6] Explain presentation phase and development phase of value analysis.
- 7] Define: Cost value and Worth
- 8] Explain the process of value analysis.
- 9] Write importance of value analysis.
- 10] Define: Esteem value and Exchange value
- 11] Draw the value analysis flow diagram.
- 12] Write a short note on Value.
- 13] Sketch value analysis flow diagram.
- 14] Explain information phase and analysis phase of value analysis.
- 15] Describe questionnaire method of value analysis.
- 16] Explain creative phase and evaluation phase of value analysis.
- 17] What is value? How it will increase?