

Uka Tarsadia University (Diwaliba Polytechnic)
Diploma in Chemical Engineering
Assignment (Industrial Management-020050505)

Unit-1 Introduction to Industrial Management

- 1] Define system and state its characteristics.
- 2] Briefly explain various functions of management.
- 3] Define system and explain system variables.
- 4] Define management and state the characteristics of management.
- 5] Briefly explain the need for the labour laws.
- 6] Define system and explain various system parameters.
- 7] Define system and explain various types of systems.
- 8] Write short note on Scientific Management.
- 9] Explain the main provisions of the Minimum Wages Act, 1948.
- 10] Write short notes on i) System behaviour and ii) System parameters

Unit-2 Organization Structure and Organizational Dynamics

- 1] Define organization and state its characteristics.
- 2] Explain concept of organizational culture and organizational climate and explain their importance.
- 3] Write short notes on: i) Centralization and Decentralization of authority ii) Division of labour
- 4] Briefly explain line type of organization with its advantages and disadvantages.
- 5] Define organizational culture and explain the factors affecting the organizational culture.
- 6] Define moral and state factors affecting the moral.
- 7] Briefly explain various types of organization.
- 8] State the impact of high moral and low moral on job performance.
- 9] What is job satisfaction? State the factors affecting job satisfaction.
- 10] Explain any two principles of an organization.
- 11] State important principles of an organization and explain each principle briefly.
- 12] Explain the factors considered in formatting an organization structure.
- 13] Write short notes on: i) Schalar chain iii) Delegation of authority
- 14] Define organization and explain the goals of an organization.
- 15] Define organizational culture and state its characteristics.

Unit-3 Materials Management

- 1] Classify the different types of material and explain it.
- 2] Define: (1) Inventory control (2) Purchasing (3) Material management
- 3] Explain Sample format for “quotation”.

- 4] Enlist types of purchasing system and explain any one in brief.
- 5] Explain various steps involved in purchase procedure.
- 6] Critically explain the derivation of the EOQ formula.
- 7] What is economic order quantity (EOQ)? Explain the EOQ concept with illustration.
- 8] A firm has provided following data regarding one of its materials:

Total annual requirement	= 10,000 units
Ordering cost	= Rs. 8/ order
Carrying cost	= 10% of stored material value
Cost of unit	= 0.40 / unit

 Find out the following:
 - a) EOQ of material
 - b) Total ordering cost and total carrying cost at EOQ
 - c) Relation between these two costs at EOQ
- 9] Write notes on: i) Two bin model ii) TQM
- 10] Write a short note on: (i) Kanban (ii) JIT
- 11] State objectives of inventory control.
- 12] Explain ABC analysis.
- 13] Explain Just in time & total quality management.
- 14] Explain the objectives of purchases presented by 5 R's.
- 15] Explain the purchase procedure?

Unit-4 Production, Planning and Control (PPC)

- 1] Explain the terms used in developing the network diagram.
- 2] Write down difference between CPM and PERT.
- 3] Enlist the different types of Float and explain any one in details.
- 4] Explain following terms in details:
 - (a) Crash time (b) Crash cost (c) Incremental cost
- 5] Enlist advantages and drawback of Network techniques.
- 6] Define: (a) Total Float (b) Free Float (c) Interfering Float
- 7] Define: (a) Float (b) Dummy Activity (c) Most Likely Time

Unit-5 Critical Path Method and Pre Evaluation Review Technique

- 1] Write objectives of PPC.
- 2] Write about dispatching and follow-up functions of PPC.
- 3] State advantages and limitations of Gantt chart.
- 4] Write short note on continuous production system.
- 5] Enlist the different forms used in PPC.
- 6] Write short note on Time study.
- 7] Write shot note on SIMO chart.
- 8] Enlist different Scheduling techniques and explain about Critical Ratio (CR) scheduling.
- 9] Explain the meaning of Bottleneck in details.
- 10] Write down different methods for reducing bottleneck and explain any one.
- 11] List different types of production system and explain any one.
- 12] Discuss the effect of Bottleneck.

- 13] The Paras pharmaceuticals limited needs the production of PCM tablets in standard strip pack of 10 tablets. The relevant details are as under:
- | | |
|---|----------------------------|
| a) Required total strip | = 20, 00,000 |
| b) Machine set-up and other related costs | = Rs. 400 fixed per set up |
| c) Cost of materials per strip | = Rs. 40 |
| d) Carrying costs | = 10% of materials stored |
- Calculate:
- i) EBQ (ii) What will be the total set-up costs if 10, 000 strips are produced in each batch?
(iii) What will be the total carrying costs if 50, 000 strips are produced?
- 14] Enlist different types of Gantt charts and explain any one.
- 15] Write short note on Line of Balance (LoB).
- 16] Write short note on importance of PPC.
- 17] Enlist different functions of PPC and explain any one.
- 18] Write down the difference between Batch production and Job order production.
- 19] Write short note on need for Scheduling.

Unit-6 Value Analysis (VA)

- 1] Define value analysis and state its characteristics.
- 2] Briefly explain following terms used in value analysis: i) Value ii) Function value iii) Esteem value
- 3] State the 7 terms included in the nomenclature of DARSIRI method.
- 4] Write short note on any one case of value analysis.
- 5] Define value analysis and discuss its importance.
- 6] Briefly explain Questionnaire method of value analysis.
- 7] Briefly explain following terms used in value analysis: i) Cost value ii) Exchange value
- 8] Write short note on process of value analysis.
- 9] Draw the flow diagram of Value Analysis.
- 10] Mention the characteristics of value analysis.
- 11] Write down advantages of value analysis.
- 12] Briefly explain following terms used in value analysis: i) Value Analysis ii) Value engineering