

- Q.25 What is the importance of route sheet.
- Q.26 Explain in detail master schedule.
- Q.27 Discuss Gantt Chart.
- Q.28 What are the different types of inspections? Explain any two.
- Q.29 Write in brief about the various stages in TQM implementation.
- Q.30 Explain the concept of JIT.
- Q.31 Write in brief about implementation of Quality Management Systems(ISO 9000).
- Q.32 What is Quality Circles (QC)? Mention some major objectives of Quality Circle projects.
- Q.33 Draw the ladder of cost and show various costs on it.
- Q.34 What do you understand by fixed and variable overheads? Give suitable examples.
- Q.35 Distinguish between 'internal customer' and 'external customer'.

#### SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain the various functions of production planning & control & its advantages.
- Q.37 What is market survey? Which data is to be collected for setting up of new venture? Explain.
- Q.38 Explain all the elements in 5'S principle and also the implementation procedure of 5'S in a manufacturing company.

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Time : 3Hrs.

M.M. : 100

#### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 The elimination of which of the following will improve industrial productivity
- a) Excess time                      b) Ineffective time
- c) Both (a) and (b)              d) None of the above
- Q.2 Mechanization is \_\_\_\_\_
- a) When a human operates a machine
- b) Using machines to do work instead of humans
- c) Installing machines into the human body
- d) Advancing machine technology
- Q.3 Break-even analysis chart is drawn between
- a) Overhead cost and fixed cost
- b) Volume of production and income
- c) Material cost and labour cost
- d) None of these
- Q.4 Which of the following is not related with JIT implementation?
- a) Pull System                      b) Push System
- c) Zero inventory                  d) Zero lead time

- Q.5 QIP stands for-
- Quality improvement program
  - Quality imparts process
  - Quality import procedure
  - None of the above
- Q.6 X chart is a \_\_\_\_\_
- Attribute control chart
  - Variable control chart
  - Neither a variable control chart nor an attribute control chart
  - Falls in the category of both variable and attribute control charts
- Q.7 Prime Cost in the aggregate of all \_\_\_\_\_.
- Indirect expenses
  - Indirect expenses + Direct expenses
  - Direct expenses
  - None of the above
- Q.8 Which of the following is/are the advantage(s) of using the ISO 9001 standard?
- Organizing processes
  - Improving the efficiency of processes
  - Continuous improvement
  - Organizing process, improving the efficiency of processes, and continuous improvement
- Q.9 The expenses paid to workers for overtime are considered as?
- Variable cost
  - Fixed cost
  - Dependent cost
  - Total cost

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- Q.10 The term "Marketing" refers to?
- Promotion of the product
  - Focusing on sales and profit.
  - Strategizing and implementing the organization process
  - Set of activities of deliver customer value and satisfaction

### SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 What is assembly production?
- Q.12 Define productivity
- Q.13 What do you understand by assembly process?
- Q.14 What is line balancing?
- Q.15 Write the importance of break-even point.
- Q.16 Define remedial inspection.
- Q.17 What do you understand by acceptance sampling.
- Q.18 Define Kaizen.
- Q.19 Write the importance of standards and codes.
- Q.20 Define estimation.

### SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Distinguish between job production and batch production.
- Q.22 Write the various methods of productivity measurement. Explain any two methods.
- Q.23 Write short note on flexible manual assembly line.
- Q.24 Write the role of Partial automation in assembly system and life balancing.

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