

SECTION-D

Note: Long answer type questions. Attempt any one question out of two questions. (1x10=10)

- Q.19 What are the various system in use for “Predetermined Motion Time Standards”? Explain one most popular amongst them.
- Q.20 Explain the procedure for implementation of Total Quality Management in an organization.

No. of Printed Pages : 4
Roll No.

202042

4th Year / Advance Diploma in Tool and Die Making
Subject : Industrial Engineering

Time : 3 Hrs.

M.M. : 50

SECTION-A

Note: Multiple Choice questions. All questions are compulsory. (5x1=5)

- Q.1 Who is the father of modern Industrial Engineering?
a) Hasley b) Gantt
c) Gilbreth d) Taylor
- Q.2 Which of the following layout manufactures part in small or medium batches?
a) Fixed Position Layout
b) Process Layout
c) Mixed Position Layout
d) Product Layout
- Q.3 What is the purpose of Time and Motion study in Industrial Engineering?
a) Analyzing financial statements
b) Assessing employee satisfaction
c) Evaluating work processes for efficiency
d) Monitoring market trends

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Q.4 What is the primary goal of Value Engineering in Industrial Engineering?

- a) Enhancing the value of products or services while minimizing costs
- b) Analyzing market trends
- c) Maximizing production costs
- d) Increasing workforce size

Q.5 Among the following network techniques, find the one that follows the activity-oriented approach

- a) CPM
- b) PERT
- c) Project
- d) PERT and Project

SECTION-B

Note: Objective type questions. All questions are compulsory. $(5 \times 1 = 5)$

Q.6 Three types of stopwatches are used in time study experiments. they are _____, _____ and _____

Q.7 _____ is the method of estimating the quality of the whole products (lot) from the quality of the samples that are drawn from the same lot.

Q.8 Process Chart was developed by _____

Q.9 According to ISO, the quality system is the organization structure, responsibilities, procedures, processes, and resources for implementing quality management.

- a) True
- b) False

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Q.10 The long-term direction of the organization in which it wants to proceed in the future is known as _____

SECTION-C

Note: Short answer type questions. Attempt any six questions out of Eight questions. $(6 \times 5 = 30)$

Q.11 Define industrial Engineering. Outline the concept of it.

Q.12 Distinguish between Product Layout and Process Layout in shop.

Q.13 Define productivity. What are the factors affecting productivity?

Q.14 What is Multiple Activity Chart? Explain.

Q.15 "Value Engineering is a very important tool for improvement of productivity". Elaborate it.

Q.16 Explain the objective of Network Analysis.

Q.17 'Inspection is a tool for controlling the quality'. Comment on it.

Q.18 How \bar{X} and R chart help in ensuring quality control.

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