

## **SECTION-D**

**Note: Long answer type questions. Attempt any one questions out of two questions. (10x1=10)**

- Q.19 What do you mean by "Standard Data"? What are its advantages? Also mention the use of Standard Data.
- Q.20 Explain the procedure for installation of ISO 9000 Quality System in an organization.

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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 Question are Compulsory. (5x1=5)**

- Q.1 Which of the following layout produces identical products?
- a) Mixed Position Layout
  - b) Fixed Position Layout
  - c) Process Layout
  - d) Product Layout
- Q.2 Which of the following is not a part of method study?
- a) SIMO chart
  - b) Stopwatch method
  - c) Process charts
  - d) Chrono cycle graph
- Q.3 Who was the founder of the modern motion study?
- a) Taylor
  - b) Smith
  - c) Gilbreth
  - d) Babbage

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- Q.4 How many types of stopwatches are used in the time study?  
a) Three                          b) Seven  
c) One                              d) Four
- Q.5 Which of the following considers the functions performed or services rendered by a product or component?  
a) Cost value                      b) Use value  
c) Esteem value                    d) Exchange value

### Section-B

**Note: Objective Type Questions. All Question are Compulsory.** (5x1=5)

- Q.6 Applications of Industrial Engineering is only limited to manufacturing industries. (T/F)
- Q.7 \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ time estimates are used in PERT?
- Q.8 The inspection carried out at special rooms or cabins that are equipped with highly accurate measuring instruments is known as \_\_\_\_\_.
- Q.9 According to ISO, Quality is the totality of features and characteristics of a product or service that bear on its ability to satisfy stated and implied needs of the customer  
a) False  
b) True

- Q.10 Training conducted to improve the operation and maintenance skills are carried out in the TPM implementation stage of TPM development?  
a) True  
b) False

### SECTION-C

**Note: Short answer type questions. Attempt any six questions out of Eight questions. (6x5=30)**

- Q.11 Write down the scope of Industrial Engineering.
- Q.12 What is Plant Layout? Write the various objectives of a good plant layout
- Q.13 Write a short note on measurement of productivity.
- Q.14 What is Cycle graph? Explain.
- Q.15 How can Value Engineering be used to improve product design at reduced cost? What are the typical stages in a job plan.
- Q.16 Briefly explain the differences between PERT and CPM.
- Q.17 What do you understand by Inspection? What is the importance of inspection in a production process?
- Q.18 Define SQC. Discuss practical devices used as tools of SQC in factories.