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**6th Sem / Branch : Auto, Mech., T&D, Prod, GE, CNC,
CAD/CAM, Mech. Engg. (Fabrication Tech.) Mech (CAD/
CAM Design &Robotics)**
Sub.: Industrial Engg.

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SECTION-A

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

- Q.1 Process layout is employed for

 - a) Batch production
 - b) Continuous type of product
 - c) Effective utilization of machines
 - d) All of the above

Q.2 Pessimistic time is

 - a) The average time required for a job
 - b) The maximum time which an activity might require
 - c) The most probable time considering all conditions
 - d) The minimum time in which an activity can possibly be accomplished

Q.3 Standard time is equal to

 - a) (Normal time) - (allowances)
 - b) (Normal time) + (allowances)
 - c) Representative time multiplied by rating factor
 - d) Normal time taken by an operation

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- Q.4 The routing function in a production system design is concerned with

 - Manpower utilization
 - Quality assurance of the product
 - Machine utilization
 - Optimizing material flow through the plant

Q.5 The factors which are to be considered while developing a good wage incentive plan will include

 - Adequate incentive
 - Ease of administration
 - Guaranteed basic pay
 - All of these

Q.6 Work sampling observations are taken on the basis of

 - Detailed calculations
 - Table of random numbers
 - Convenience
 - Past experience

Q.7 Gantt chart is used for

 - Inventory control
 - Material handing
 - Production schedule
 - Machine repair schedules

Q.8 Time study is carried out to determine the time required to complete job by

 - An average worker
 - A fast worker
 - A slow worker
 - An apprentice

Q.9 In ABC control policy maximum attention is given to

 - Those items which consume money
 - Those items which are not readily available

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- c) Those x items which are in more demand
d) Those items which consume more money
- Q.10** What does symbol 'D' imply in work study?
a) Inspection
b) Transport
c) Delay/ Temporary storage
d) Permanent storage

SECTION-B

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

- Q.11 Standardization.
Q.12 Work Study.
Q.13 Micro Motion Study.
Q.14 Ergonomics.
Q.15 Performance Rating.
Q.16 Incentive.
Q.17 Scheduling
Q.18 CPM.
Q.19 Inventory control.
Q.20 Gantt chart.

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Write the various methods of productivity measurement. Explain any two methods.
Q.22 How method study and work measurement are related to each other?
Q.23 Write a short note on "Human aspects of work study"?

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- Q.24 Give the classification of recording techniques.
Q.25 Write a short note on cycle graph.
Q.26 Define Ergonomics. Write two objectives and two applications of it.
Q.27 Write the applications of work sampling.
Q.28 Differentiate between financial and non financial benefits.
Q.29 Differentiate PERT and CPM.
Q.30 Distinguish between job production and batch production.
Q.31 Describe Taylor's incentive system.
Q.32 Derive the basic EOQ model and list the various assumptions on which it works.
Q.33 What are the major functions of Production planning and control?
Q.34 How the store layouts are related to type of production?
Q.35 Write short note on Cronocycle graph and cycle graph.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 What is method study? What are its objectives? Explain the procedure for method study.
Q.37 Define the concept of standard time. Explain clearly the steps involved in arriving at standard time, starting with observed time.
Q.38 What do you understand by production planning and control? What are the various objectives of PPC? Write the various factors that affect PPC?

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