

No. of Printed Pages : 4 181861B/120361/031863/
Roll No. 084561/105244/30354/1765

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

Time : 3Hrs. M.M. : 100

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
- a) Manpower utilization
 - b) Quality assurance of the product
 - c) Machine utilization
 - d) Optimizing material flow through the plant
- Q.5 The factors which are to be considered while developing a good wage incentive plan will include
- a) Adequate incentive
 - b) Ease of administration
 - c) Guaranteed basic pay
 - d) All of these
- Q.6 Work sampling observations are taken on the basis of
- a) Detailed calculations
 - b) Table of random numbers
 - c) Convenience
 - d) Past experience
- Q.7 Gantt chart is used for
- a) Inventory control
 - b) Material handling
 - c) Production schedule
 - d) Machine repair schedules
- Q.8 Time study is carried out to determine the time required to complete job by
- a) An average worker b) A fast worker
 - c) A slow worker d) An apprentice
- Q.9 In ABC control policy maximum attention is given to
- a) Those items which consume money
 - b) 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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