

- Q.27 What is a SIMO chart? Discuss?
 - Q.28 Write few applications of Ergonomics?
 - Q.29 Define standard data and its type in detail?
 - Q.30 Write short note on stop watch time study procedure?
 - Q.31 What is EOQ model? How carrying cost is calculated?
 - Q.32 What is Gantt chart? Explain order control chart?
 - Q.33 Differentiate b/w PERT and CPM.
 - Q.34 Write the objectives and importance of costing?
 - Q.35 What are the objectives of Material and store management?

SECTION-D

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

- Q.36 Explain PPC. Its advantages & various stages.

Q.37 What is the purpose of work measurement? Mention and explain the steps involved in the work measurement process.

Q.38 Write short note on any two:

 - i) Process planning
 - ii) Different layout used in Store
 - iii) Route sheet

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

Subject:- Industrial Engineering

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 In product layout

 - a) Specialized and strict supervision is required
 - b) Machines cannot be used to their maximum capacity
 - c) Manufacturing cost rises with a fall in the volume of production
 - d) All of the above

Q.2 Earliest finish time can be regarded as

 - a) Earliest start time + duration of activity
 - b) Earliest start time duration of activity
 - c) Latest finish time + duration of activity
 - d) Latest finish time duration of activity

Q.3 Gantt chart is used for

 - a) Inventory control
 - b) Material handling
 - c) Production schedule
 - d) Machine repair schedules

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- Q.4** Micro-motion study is
 a) Analysis of one stage of motion chart
 b) Motion study, when seen on a time chart
 c) Subdivision of an operation into therbligs and their analysis
 d) Enlarged view of motion study
- Q.5** In manufacturing management, the term 'Dispatching' is used to describe
 a) Dispatch of sales order
 b) Dispatch of work orders through shop floor
 c) Dispatch of finished product of the user
 d) Dispatch of factory mail
- Q.6** 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.7** In time study, the rating factor is applied to determine
 a) Standard time of a job
 b) Merit rating of the worker
 c) Normal time of a worker
 d) Fixation of incentive rate
- Q.8** Which of the following layouts is suited for mass production?
 a) Process layout b) Product layout
 c) Fixed position layout d) Plant layout
- Q.9** Bin card is used in
 a) Workshop b) Stores
 c) Foundry shop d) Administrative wing

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- Q.10** Basic tool in work study is
 a) Graph paper b) Process chart
 c) Planning chart d) Stop watch

SECTION-B

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

- Q.11 Define Bin cards.
 Q.12 Define Routing
 Q.13 Define Critical Time
 Q.14 Define Wage Payment
 Q.15 Define Financial Incentive
 Q.16 Define Basic time
 Q.17 Define Therblig
 Q.18 Define Method study
 Q.19 Define Productivity
 Q.20 Define Work study

SECTION-C

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

- Q.21 How the productivity is measured? Explain.
 Q.22 Explain the causes of low productivity?
 Q.23 How work study help in improving productivity?
 Q.24 Explain the objectives and scope of work study?
 Q.25 Explain Operation Process Chart
 Q.26 Explain the procedure of method study?

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