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4th Sem / Mechanical Engineering
Subject : Industrial Engineering

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 The cause of decrease in productivity is (CO1)
a) Frequent machine breakdown
b) Shortage of raw material
c) Confusion in machine scheduling
d) All of the above
- Q.2 Which of the following is a process chart? (CO3)
a) Man machine chart
b) Two handed process chart
c) Outline process chart
d) All of the above
- Q.3 Full form of SIMO is (CO2)
a) Sine Movement
b) Simultaneous movement
c) Simultaneous motion
d) Simultaneous momentum

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- Q.4 The average time recorded by a work study man for an operation is called. (CO4)
a) Normal time b) Basic time
c) Standard time d) Observed time
- Q.5 Which of the following is a production planning function? (CO5)
a) Follow up b) Planning
c) Inspection d) Control
- Q.6 Which allowances is provided to the worker for enforced idleness due to nature of operation? (CO4)
a) Rest allowance
b) Process allowance
c) Policy allowance
d) Periodic activity allowance
- Q.7 A critical activity has. (CO7)
a) Minimum slack b) Maximum slack
c) Zero slack d) None of the above
- Q.8 PPC stands for (CO5)
a) Product Planning Centre
b) Process Planning Centre
c) Product Planning and Control
d) Production Planning and Control
- Q.9 An activity is represented by _____ on the network diagram. (CO5)
a) An arrow b) A straight line
c) A circle d) A dashed line

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Q.10 Spare parts, lubricants etc. Come under the category of. (CO9)

- a) Raw material inventories
- b) Finished goods inventories
- c) In-process inventories
- d) Indirect inventories

Section-B

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

- Q.11 Define time study. (CO2)
- Q.12 Define direct labour. (CO5)
- Q.13 What is a two handed process chart? (CO2)
- Q.14 What do you mean by incentive? (CO4)
- Q.15 Name two techniques of performance rating. (CO3)
- Q.16 Expand the term CPM. (CO5)
- Q.17 Who have developed the cycle graph originally? (CO3)
- Q.18 EOQ stands for. (CO7)
- Q.19 Define scheduling. (CO5)
- Q.20 Write a cause of over loading. (CO5)

Section-C

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

- Q.21 Write the scope of work study. (CO2)
- Q.22 Describe the role of method study in improving productivity. (CO3)

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Q.23 What is the role of scheduling in PPC. (CO5)

Q.24 Write objectives of time study. (CO3)

Q.25 Describe direct labour. (CO4)

Q.26 Give the procedure of motion analysis. (CO3)

Q.27 What are the principles of motion economy? (CO3)

Q.28 Write a short note on therbligs. (CO2)

Q.29 Explain concept of economic order quantity. (CO9)

Q.30 Describe string diagram. (CO3)

Q.31 Define time rate system. (CO4)

Q.32 Give the purpose of follow up. (CO5)

Q.33 Differentiate between production and productivity. (CO1)

Q.34 Describe time estimates used in CPM. (CO5)

Q.35 What is decentralized store? (CO9)

Section-D

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

Q.36 Explain components of production planning and control. (CO5)

Q.37 Explain the stop watch time study procedure. (CO3)

Q.38 Define incentive and explain any three wage incentive plans. (CO4)

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