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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

- 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

(1)

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(2)

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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)

- 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)