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4th Sem / Branch : Mech
Sub.: Industrial Engineering

Time : 3Hrs.

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 Work study involves (CO2)
a) Method study and labour study
b) Method study and work measurement
c) Wage payment
d) None of the above
- Q.3 Which of the following is not a process chart? (CO3)
a) Man machine chart
b) Gantt's Chart
c) Outline process chart
d) Two handed process chart
- Q.4 Square is a process chart symbol, it stands for (CO3)
a) Operation b) Storage
c) Inspection d) None of the above

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- Q.5 Skill and effort rating technique was suggested by (CO2)
a) F.W. Taylor
b) Henry Fayol
c) Westinghouse electric corporation
d) C.E. Bedaux
- Q.6 An event is represented by _____ on the network diagram. (CO7)
a) An arrow b) A straight line
c) A circle d) A dashed line
- Q.7 PPC stands for (CO5)
a) Product Planning Centre
b) Production Planning and Control
c) Product Planning and Control
d) Process Planning Centre
- Q.8 Which allowance is provided to the worker for the sudden stoppage of machine during operation? (CO4)
a) Random interference allowance
b) Rest allowance
c) Process allowance
d) Policy allowance
- Q.9 Which of the following is a production control function? (CO5)
a) Routing b) Inspection
c) Scheduling d) Loading

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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 work study. (CO2)
- Q.12 Cycle graph was originally developed by _____. (CO3)
- Q.13 Name two process charts. (CO3)
- Q.14 Which type of production system uses product layout? (CO6)
- Q.15 Define direct labour. (CO5)
- Q.16 List any two indirect incentives. (CO7)
- Q.17 What is earliest start time? (CO5)
- Q.18 Define routing. (CO5)
- Q.19 PERT stands for. (CO7)
- Q.20 Define bin card. (CO9)

SECTION-C

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

- Q.21 Write the scope of work study. (CO2)
- Q.22 Define method study. (CO3)

- Q.23 Difference between production and productivity. (CO1)
- Q.24 What are the causes of low productivity? (CO1)
- Q.25 Make a two handed process chart for assembling nut and bolt. (CO3)
- Q.26 What are the uses of Chronocycle grap? (CO3)
- Q.27 Write a short note on SIMO charts? (CO3)
- Q.28 Name the various techniques of work measurement. (CO3)
- Q.29 Write a short note on standard data. (CO7)
- Q.30 Give applications of work sampling. (CO3)
- Q.31 Describe piece rate system. (CO4)
- Q.32 What do you mean by indirect incentives? (CO4)
- Q.33 Explain job order production system. (CO6)
- Q.34 Define scheduling. (CO5)
- Q.35 Write advantages of good inventory control. (CO9)

SECTION-D

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

- Q.36 Discuss in detail the procedure of method study. (CO2)
- Q.37 Explain the design of work place layout. (CO8)
- Q.38 Explain components of production planning and control. (CO5)