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Roll No. ....

**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

- 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

(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 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 graph? (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)