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Roll No.....

4th Sem,

**Subject :** Industrial Engineering

**Time : 3 Hrs.**

**M.M. : 100**

### **SECTION-A**

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

- Q.1** In product layout (CO-6)  
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 (CO-5)  
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 (CO-7)  
a) Inventory control b) Material handling  
c) Production schedule d) Machine repair schedules
- Q.4** Micro-Motion study is (CO-3)  
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. (CO-8)  
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 (CO-2)  
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 (CO-4)  
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? (CO-8)  
a) Process layout b) Product layout  
c) Fixed position layout d) Plant layout
- Q.9** Bin card is used in (CO-9)  
a) Workshop b) Stores  
c) Foundry shop d) Administrative wing
- Q.10** Basic tool in work study is (CO-1)  
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 Why productivity is important for an organization? (CO-2)  
Q.12 Define Production. (CO-1)  
Q.13 What is method study? (CO-3)  
Q.14 What are incentives? (CO-4)  
Q.15 Define Routing? (CO-5)  
Q.16 What is continuous type of production? (CO-6)  
Q.17 Define machine loading. (CO-7)  
Q.18 What do you understand by plant layout? (CO-8)  
Q.19 Give the name of different types of inventory. (CO-9)  
Q.20 Write any two advantages of a good incentive plan. (CO-4)

## **SECTION-C**

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

- Q.21 Write the various methods of productivity measurement. Explain any two methods. (CO-1)  
Q.22 Describe the inter-relationship between method study and work study. (CO-3)  
Q.23 Write about the role of work study in improving productivity. (CO-2)  
Q.24 What is method study? Write down any two objectives of method study. (CO-2,3)  
Q.25 Write short note on Cronocycle graph and cycle graph. (CO-3)  
Q.26 Explain standard time calculation for a job. (CO-3)

- Q.27 Discuss various types of incentives. (CO-4)  
Q.28 What is meant by Dispatching. (CO-5)  
Q.29 What are the major functions of Production planning and control? (CO-5)  
Q.30 Differentiate PERT and CPM. (CO-8)  
Q.31 How the plant layouts are related to type of production? (CO-8)  
Q.32 Explain Gantt chart. (CO-7)  
Q.33 Write the names of various techniques of work measurement. Explain any two. (CO-3)  
Q.34 Derive the basic EOQ model and list the various assumptions on which it works. (CO-9)  
Q.35 Write in brief about micro-motion study. (CO-3)

## **SECTION-D**

**Note:** Long Answer type question. Attempt any two questions. (2x10=20)

- Q.36 What do you understand by production planning and control? Discuss its main elements. (CO-5)  
Q.37 Describe work study. Write basic procedure for work study. (CO-3)  
Q.38 State principles of motion economy as related to human body. How they are related to design of tools and equipments. (CO-8)