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**6th Sem / Auto, Mech, T & D, Prod, GE, CNC, CAD/ CAM,Mech Engg.  
( Fabrication Tech.) Mech (CAD / CAM Design & Robotics)  
Sub. : Industrial Engineering**

Time : 3Hrs. M.M. : 100

## **SECTION-A**

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

- Q.1 N.P.C. Stands for (CO1)

  - a) National Product Centre
  - b) National Productivity Centre
  - c) National Product Council
  - d) National Productivity Council

Q.2 Work study is concerned with (CO2)

  - a) Improving present method and finding standard time
  - b) Motivation of workers
  - c) Improving production capability
  - d) Improving production planning and control

Q.3 Outline process chart uses the following symbols: (CO3)

  - a) Inspection and transportation
  - b) Operation and transportation
  - c) Operation and inspection
  - d) Delay/Temporary storage

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- Q.4 The correct order of procedure in method study is (CO5)

  - a) Select-Record-Examine-Develop-Define- Install - Maintain
  - b) Select-Define-Examine-Develop-Record- Install - Maintain
  - c) Select-Record-Develop-Examine-Define-Install- Maintain
  - d) Select-Record-Examine- Define-Develop-Install- Maintain

Q.5 Ergonomics means (CO2)

  - a) Economics
  - b) Human motion economy
  - c) Psychology
  - d) None of the above

Q.6 The bill of material does not consists of (CO6)

  - a) Part number                  b) Specifications of part
  - c) Name of the part            d) Price of the part

Q.7 Gnatt chart provides information about the (CO7)

  - a) Material handling
  - b) Proper utilization of manpower
  - c) Production schedule
  - d) Efficient working of machine

Q.8 ABC analysis deal with (CO6)

  - a) Analysis of process chart
  - b) Flow of material
  - c) Ordering schedule of job
  - d) Controlling inventory costs money

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- Q.9 The full form of CPM is \_\_\_\_\_. (CO9)  
 a) Critical Path Method  
 b) Control Path Method  
 c) Critical Plan Management  
 d) Control Path Management
- Q.10 The time period between placing an order its receipt in stock is known as (CO9)  
 a) Shortage time      b) Carrying time  
 c) Lead time            d) Overtime

### **SECTION-B**

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

- Q.11 Name the categories in which the factors affecting productivity are classified. (CO1)
- Q.12 Define method study. (CO3)
- Q.13 Define process chart. (CO3)
- Q.14 Define motion analysis. (CO3)
- Q.15 What is work sampling? (CO4)
- Q.16 Define direct labour. (CO5)
- Q.17 Define scheduling. (CO7)
- Q.18 Write the use of Gantt Chart. (CO8)
- Q.19 Give full form of PPC. (CO8)
- Q.20 Write the types of store. (CO9)

### **SECTION-C**

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Explain the factors affecting productivity. (CO2)
- Q.22 Explain the role of contribution of standardization in improving the productivity. (CO2)

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- Q.23 What is role of work study in improving productivity. (CO3)
- Q.24 Explain limitations of work-study. (CO3)
- Q.25 Explain the process of method study. (CO3)
- Q.26 Give the classification of recording techniques. (CO3)
- Q.27 Define ergonomics and white its objectives. (CO6)
- Q.28 Explain the design of work place layout. (CO6)
- Q.29 Explain the procedure of work measurement. (CO5)
- Q.30 Enlist the uses of standard data. (CO6)
- Q.31 differentiate between time rate system and piece rate system. (CO4)
- Q.32 Describe the different typ of wages. (CO4)
- Q.33 Write the main objectives of production planning.(CO7)
- Q.34 What is inventory? What are its different types? Explain. (CO9)
- Q.35 Explain the purchase procedure. (CO9)

### **SECTION-D**

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain the basic procedure for work study and give the factors for selecting the job for work study in detail. (CO3)
- Q.37 Explain in detail various types of allowances considered for a worker while carrying out time study. (CO3)
- Q.38 Explain the various functions of Production Planning and Control department. (CO7)

**Note :** Course Outcome (CO) mentioned in the question paper is for official purpose only.

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