

No. of Printed Pages : 4 181861B/120361/031863/
Roll No. 084561/105244/0354/1765

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

- 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) Over time

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)

- 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 write 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 type 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.