

- Q.25 Write various objectives of production planning and control.
- Q.26 Define motion analysis. What are its objectives?
- Q.27 Draw the Therbligs symbol of
- Find
 - Plan
 - Hold
 - Assemble
 - Use
- Q.28 What is SIMO chart?
- Q.29 What is two handed process chart? Explain with example.
- Q.30 Write the advantages and applications of PERT.
- Q.31 What do you mean by human aspect of work study.
- Q.32 Explain Gantt plan.
- Q.33 Write the external factors which affect productivity.
- Q.34 Define Ergonomics and its objectives.
- Q.35 Define
- Inventory Ordering Cost
 - Inventory Carrying Cost

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain the procedure of method study.
- Q.37 Explain the components/functions of production planning and control.
- Q.38 Explain allowances and their types.

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

Subject:- 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
- National Productivity Council
 - National Productivity Centre
 - National Product Council
 - National Product Centre
- Q.2 The symbol 'O' stands for
- Operation
 - Inspection
 - Storage
 - Delay
- Q.3 Which of the following charts give simultaneous information about the progress of work and machine loading?
- Gantt chart
 - Machine load chart
 - Process chart
 - Man machine chart
- Q.4 Ergonomics means
- Economics
 - Human motion economy
 - Psychology
 - None of the above

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- Q.5 Standard Time = _____
- Normal time - Allowances
 - Observed time x Performance rating factor
 - Normal time + Allowances
 - Observed time + Normal time
- Q.6 Which allowance is provided to the worker for enforced idleness due to nature of operation?
- Rest allowance
 - Policy allowance
 - Process allowance
 - Random interference allowance
- Q.7 The wage paid to the worker just to keep him alive is called
- Nominal wage
 - Real wage
 - Minimum wage
 - Fair wage
- Q.8 The cost associated with holding the inventory in the store is called
- Inventory carrying cost
 - Inventory ordering cost
 - Inventory cost
 - none of the above
- Q.9 A card attached to each rack where material is placed to record the materials entering or leaving the rack is called
- Store ledger
 - bin card
 - Both (a) and (b)
 - None of the above

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- Q.10 Gantt chart is used for
- material handling
 - inventory control
 - Equipment handling
 - production schedule

SECTION-B

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

- Q.11 Productivity is the ratio of input to output.(T/F)
- Q.12 The techniques of work study are _____ and _____.
- Q.13 The process of converting raw material into finished product is known as _____
- Q.14 \Rightarrow is the symbol of _____
- Q.15 1 wink = _____ Minute.
- Q.16 Full form of PERT is _____
- Q.17 A reward given to the worker for this efficiency and hard work is called _____
- Q.18 Expand PPC.
- Q.19 _____ is the relaxation allowance provided to the worker to overcome fatigue caused during working.
- Q.20 E.O.Q stands for _____

SECTION-C

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

- Q.21 What are the difference between production and productivity?
- Q.22 Define string diagram with example.
- Q.23 Write the advantages of CPM.
- Q.24 Explain EOQ method of Inventory control.

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