

- Q.22 Write short note on Group technology
- Q.23 Explain the concept of sequencing of FMS
- Q.24 Differentiate between CNC and DNC systems.
- Q.25 Explain integrated Process Planning systems.
- Q.26 Write short note on CAPP.
- Q.27 What are the design aspects of flexible manufacturing?
- Q.28 Write short note on combined DNC/ CNC systems
- Q.29 Differentiate between ACO and ACC systems.
- Q.30 Explain part program to command signal.
- Q.31 Write short note on computer aided scheduling.
- Q.32 Differentiate between CNC and DNC systems
- Q.33 What do you understand by manufacturing flexibility?
- Q.34 Explain the problems with conventional NC systems
- Q.35 Write short note on software for FMS

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain the Group Technology concept. How the grouping methods are done for the products?
- Q.37 Draw a neat sketch of DNC systems showing their components. Explain its types.
- Q.38 Explain any one transducer in NC systems giving its merits and demerits.

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Mech. Engg. (Fabrication Tech.) **Subject:- Computer Aided Manufacturing**

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 What is the full form of CAPP?
- Computer Aided progress planning
 - Computerised Aided process planning
 - Computer Aided process planning
 - Computerised Aided progress planning
- Q.2 Which is not the advantage of CNC?
- High initial cost
 - Skilled CNC personnel
 - High maintenance
 - All of the above
- Q.3 NC machines use two types of codes
- EIA, ISO
 - SPM, ISO
 - Photocell, binary
 - Binary, EIA
- Q.4 Expand DNC
- Directing numerical control

- b) Directing number control
 - c) Direct numerical control
 - d) Direction number control
- Q.5 Full form of FMS?
- a) Flexible machine system
 - b) Flexible machine source
 - c) Flexible manufacturing source
 - d) Flexible manufacturing system
- Q.6 Which one is the NC motion control classification?
- a) Paraxial b) PTP
 - c) Contouring d) All of the above
- Q.7 The L-type motion control of NC system
- a) Cut along one major axis
 - b) On more than one axis
 - c) Control the speed with movement
 - d) None of the above
- Q.8 _____ is not a transducer for NC?
- a) Encoder b) LVDT
 - c) Opto interrupter d) MCU
- Q.9 What is OPITZ in group technology
- a) Inventor b) Classification
 - c) Coding system d) None of the above

- Q.10 Which is not the disadvantages of CNC?
- a) More flexibility
 - b) High maintenance cost
 - c) High initial cost
 - d) Skilled CNC personnel

SECTION-B

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

- Q.11 Name types of adaptive control systems.
- Q.12 _____ is called the brain of the computer
- Q.13 The output of CAD is the input of _____
- Q.14 Material handling is a part of _____ FMS systems
- Q.15 The _____ to NC systems is given by actuation
- Q.16 The _____ axis decide the tool movement.
- Q.17 Expand MCU
- Q.18 Name elements of FMS
- Q.19 _____ converts one form of energy to another useful form
- Q.20 Give two advantages of CNC

SECTION-C

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

- Q.21 Explain different types of manufacturing Line in CAM.