

- Q.27 Write a short note on various tool material used in CAM
- Q.28 Write a short note on combined DNC/CNC systems
- Q.29 Explain various problems associated with Conventional NC
- Q.30 Explain the concept of Group technology and part family in brief.
- Q.31 What is generative process planning
- Q.32 Explain various FMS elements
- Q.33 Explain various applications of computers used in manufacturing
- Q.34 Write a short note on NC actuation systems
- Q.35 Explain various advantages of adaptive control systems

#### SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 What is CAPP? Explain in detail its types and advantages.
- Q.37 Explain flexible manufacturing systems and its various types with neat diagram
- Q.38 Explain in brief:
- NC motion control systems
  - Type of adaptive control systems

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#### 4th Sem / Prod, CAD / CAM (6th) Subject:- Computer Aided Manufacturing

Time : 3Hrs.

M.M. : 100

#### SECTION-A

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

- Q.1 Command G01 means
- Linear Interpolation
  - Circular Interpolation
  - Rapid positioning
  - None
- Q.2 GT stands for:
- Group Technology
  - Guide Technology
  - Great Technology
  - All of the above
- Q.3 Generative process planning is a type of
- FMS
  - CAD
  - CAPP
  - None
- Q.4 The CNC Control system which have feedback signals are called
- uncontrolled system
  - Closed loop system
  - controlled system
  - open loop
- Q.5 M codes in CNC programs is \_\_\_\_\_
- Speed codes
  - Governing codes
  - Preparatory codes
  - Miscellaneous codes

- Q.6 FMS stands for
- a) Flexible manufacturing system
  - b) Flexible maintenance system
  - c) Both a and b
  - d) none of above
- Q.7 DNC stands for :
- a) Direct Network control
  - b) Direct Nested control
  - c) Direct Numeric control
  - d) All of the above
- Q.8 In a DNC System
- a) Many machine tools can be controlled simultaneously
  - b) Only single machine tool can be controlled
  - c) NC machine cannot be controlled
  - d) None of the above
- Q.9 ATC stands for:
- a) Automatic tool changer
  - b) Automatic tool chains
  - c) both a and b
  - d) none
- Q.10 What does AGV stands for
- a) Automated guide vehicle
  - b) Automatic gravity vehicle
  - c) Both a and b
  - d) None of above

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## SECTION-B

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

- Q.11 Define CNC and DNC
- Q.12 Expand MCU
- Q.13 What is group technology
- Q.14 List any one applications of computers in manufacturing
- Q.15 Define generative process planning
- Q.16 Name any two material handling equipments used in FMS
- Q.17 The tool coatings improve the performance of tool
- a) True
  - b) False
- Q.18 What is transducer
- Q.19 Define FMS
- Q.20 What is part family

## SECTION-C

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

- Q.21 Explain in brief various types of CAPP
- Q.22 Explain various softwares for FMS in brief
- Q.23 Differentiate between CNC/DNC
- Q.24 Explain concept of scheduling in FMS
- Q.25 Enlist various material handling equipments used in FMS
- Q.26 Explain various features of NC machine tools

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