

Section-D

Note: Long answer questions. Attempt any two question out of three Questions. (2x8=16)

- Q.23 Explain the advantages and disadvantages of analytical and synthetic curve in details. (CO2)
- Q.24 Write the names of different types of curves in geometrical modeling and explain any two. (CO3)
- Q.25 Write short Notes on : (CO5)
- a) Standard Canned Cycles
 - b) Linear and Circular Interpolation

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5th Sem.

Branch : Automation & Robotics

Subject : CAD and CAM

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple Choice Questions. All Questions are compulsory. (6x1=6)

- Q.1 Which is not a CAM software? (CO1)
- a) Creo Parametric
 - b) Unigraphics NX
 - c) Auto CAD
 - d) Power Mill
- Q.2 A Automation means _____. (CO1)
- a) Increased Productivity
 - b) Workers controlling machines
 - c) Assisting and replacing humans with machines
 - d) All of the above
- Q.3 _____ is an application technology that uses computer software and machinery to facilitate and automate manufacturing processes. (CO1)
- a) CAD
 - b) CAM
 - c) CAQ
 - d) CAE

- Q.4 What is the purpose of CAM? (CO1)
- To ensure that the error rate is decreased
 - To uniformity of high products
 - To achieve precision in the processes
 - All of the above
- Q.5 Art-Programming mistake can be avoided in. (CO4)
- NC
 - CNC
 - NC & CNC both
 - None of the above
- Q.6 CNC machine has the following main advantage over conventional machining practice? (CO5)
- Ability to employ higher cutting speeds, feeds and depth of cut
 - Feedback control
 - Flexibility
 - None of the above

Section-B

Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 The heat of a computer is _____. (CO1)
- Q.8 The term UCS stands for _____. (CO1)
- Q.9 The Control loop unit of M.C.U. is always _____. (CO2)
- Q.10 The magnetic tapes and disks can store more data compared to the punched card. (True/False) (CO2)

Q.11 For CNC machining skilled part programmers is not needed. (True/False) (CO4)

Q.12 DNC stands for _____. (CO4)

Section-C

Note: Short answer type Question. Attempt any eight questions out of Ten Questions. (8x4=32)

- Q.13 Explain the 2D and 3D transformation in brief. (CO1)
- Q.14 Explain the benefits of Automation Concept. (CO1)
- Q.15 Explain the need of CAD/CAM. (CO1)
- Q.16 Explain the cubic spline curves. (CO3)
- Q.17 Explain the representation of wire frame models. (CO2)
- Q.18 What the different M codes used in NC part programming. (CO4)
- Q.19 Explain the work holding procedure for milling centres. (CO4)
- Q.20 Explain the design characteristics of NC Machine tools. (CO4)
- Q.21 Discuss any four functions of direct numerical control (DNC). (CO5)
- Q.22 Explain the Pneumatic devices in CNC. (CO5)