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062463

6th Sem./Mech Mecatronics CNC

Subject:- CAD/CAM/CAD CAM & FMS

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 The setting of tool to a specific length at a far away is known as. (CO5)
a) Tool on setting b) Specific setting
c) Post setting d) Presetting
- Q.2 _____key can be used for entering the command in memory at COMMAND prompt in AutoCAD. (CO2)
a) Spacebar b) Enter key
c) Both a and b d) None of the above
- Q.3 _____command in AutoCAD is used as a shortcut for circle. (CO2)
a) C b) CIRI
c) Circle d) C1r
- Q.4 Which of the following will give rapid linear tool movement. (CO4)
a) G00 b) G01
c) G70 d) G71

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- Q.5 Flexible manufacturing system (FMS) is generally limited to firms involved in _____. (CO7)
a) Mass production b) Batch production
c) Both a and b d) None of Above
- Q.6 The axes of turning machines are. (CO4)
a) Z and Y axes b) X and Y axes
c) Z and X axes d) X, Y and Z axes
- Q.7 The edges in autoCAD are known as _____. (CO2)
a) Trim b) Round
c) Chamfer d) Fillet
- Q.8 The extension of autoCAD drawing file is _____. (CO2)
a) DRG b) DXF
c) DWT d) DWG
- Q.9 APT is a _____ Programming language. (CO4)
a) CNC b) Robot
c) NC d) PLC
- Q.10 SW-Isometric view stands for _____. (CO3)
a) Software b) Softwall
c) South west d) Surrounded wall

SECTION-B

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

- Q.11 What is CAM. (CO1)
- Q.12 Define lead out. (CO6)
- Q.13 The round corners of an object are made in autocad by _____Command. (CO2)

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- Q.14 _____ G code is used for programming in absolute mode coordinates. (CO4)
- Q.15 Rotation motion of a Robot arm is Known as _____. (CO7)
- Q.16 Expand SCARA (CO7)
- Q.17 What do you mean by SW view? (CO3)
- Q.18 Define Dwell in CNC. (CO4)
- Q.19 The output of computer aided _____ is input to computer aided _____. (CO1)
- Q.20 _____ command in autocad is used as shortcut for making a polyline. (CO2)

SECTION-C

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

- Q.21 Define filleting. Explain with examples. (CO2)
- Q.22 Write the various applications of CAD-CAM. (CO1)
- Q.23 Describe the construction of a solid using Extrude and Region feature of autocad. (CO2)
- Q.24 Explain robot motions in details. (CO7)
- Q.25 Discuss the features of any one design software. (CO1)
- Q.26 Explain MIRROR command with an example. (CO2)
- Q.27 Discuss teach pendant programming in robots. (CO7)

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- Q.28 What is parametric surface in AutoCAD. (CO2)
- Q.29 Explain various machining process parameters. (CO4)
- Q.30 Write the applications of 3D array. (CO2)
- Q.31 What are the main features of Solid modeling software. (CO1)
- Q.32 Discuss the procedure to transfer program to CNC machine. (CO4)
- Q.33 Explain robot configurations. (CO7)
- Q.34 Explain steps to create a "Flywheel" using REVOLVE feature. (CO2)
- Q.35 Explain the method of viewing in 3D. (CO3)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Discuss various robot motions with their diagrams and their work envelop. (CO7)
- Q.37 Explain various types of tool holders and tool storage devices in CNC (CO4)
- Q.38 What are various production equipment, support systems which become part of an FMS. (CO6)

Note: Course Outcome (CO) mentioned in the question paper is for official purpose only.

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