

Model Question Paper-2 with effect from 2019-20 (CBCS Scheme)

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Fourth Semester B.E. Degree Examination CAD/CAM

TIME: 03 Hours

Max. Marks: 100

Note: Answer any **FIVE** full questions, choosing at least **ONE** full question from each **MODULE**.

Module -1		Bloom's Taxonomy Level	Marks
Q.1	a Define CAM, CADD and CAPP.	I	6
	b With the help of neat sketch explain the product cycle in conventional manufacturing environment.	V	8
	c Briefly explain Memory elements used in CAD	V	6
OR			
Q.2	a Differentiate between conventional and computerized manufacturing environments.	IV	10
	b With the help of a neat sketch explain different types of Display mechanisms used in CAD.	V	10
Module-2			
Q. 3	a Explain the features of Graphics software.	V	6
	b Explain briefly about transformations.	V	8
	c Explain the functions of graphics package.	V	6
OR			
Q.4	a Briefly explain the NC procedure.	V	10
	b Explain the elements of CNC, and DNC systems.	V	10
Module-3			
Q. 5	a With the help of a neat sketch explain the Horizontal milling machine.	V	10
	b Briefly explain the Milling tooling systems.	V	10
OR			
Q. 6	a Discuss briefly the CNC machining centers.	VI	10
	b Explain the high speed machine tools.	V	10
Module-4			
Q. 7	a Define a part program, and preparatory codes. Specify any 6 preparatory codes.	I, IV	10
	b Develop a CNC part program for the part given in fig.Q.7(b). All dimensions are in mm.	VI	10

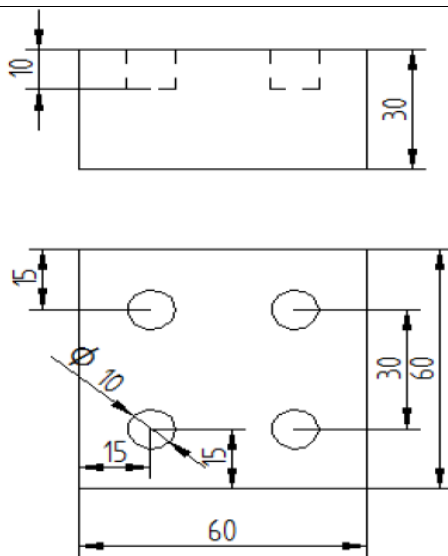


Fig. Q.7(b)

OR

Q. 8 a Explain briefly the Part programming languages.

V

10

b Develop a CNC part program for the part given in fig.Q.8(b). All dimensions are in mm.

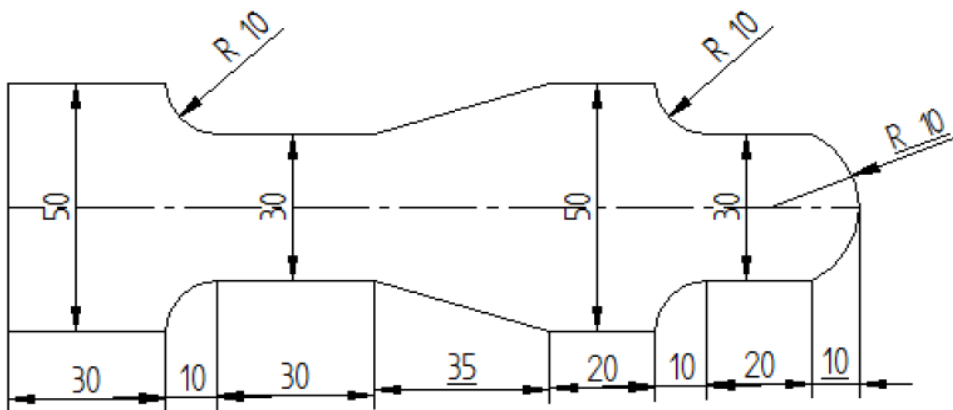


Fig. Q.8(b)

VI

10

Module-5

Q. 9 a Explain briefly the Robot sensors.

V

10

b With the help of a neat sketch explain the end effectors.

V

10

OR

Q. 10 a Explain the different Robot programming languages.

V

10

b Explain the various applications of a Robot.

V

10