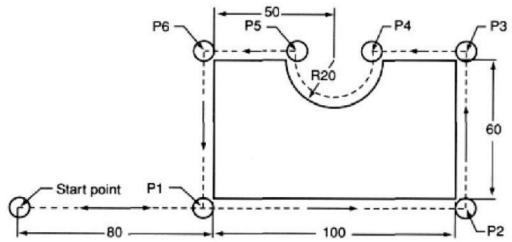
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	Н	all Ticket Number :	R-17		
	Co	de: 7G574			
		IV B.Tech. I Semester Supplementary Examinations March/Apr	il 2023		
		CAD/CAM			
	M	(Mechanical Engineering) ax. Marks: 70	ne: 3 Ho	al irs	
		swer any five full questions by choosing one question from each unit (5x14			
		*****	Marks	CO	BL
		UNIT-I	Maiks		DL
1.		With the help of neat sketches, describe construction,			
		working, advantages, limitations and applications of any two			4 (
		input devices.	14M	1	1 8
		OR			
2.	a)	A rectangle is defined by its corner points (2,2), (2,8), (10,8)			
	,	and (10,2). Rotate the rectangle by an angle of 30			
		counterclockwise and then followed by a scaling with a factor			1 8
		of 2. Solve the above transformations and plot.	8M	1	2
	b)	Compare and contrast conventional design process with			1 8
		CAD process.	6M	1	2
		UNIT-II			
3.	a)	Derive the parametric representation of a Hermite Cubic			
		Spline curve.	10M	2	2
	b)	Write a note on surface patch.	4M	2	2
		OR			
4.	a)	Differentiate B-rep and CSG representation schemes.	10M	2	2
	b)	List various wireframe and surface entities.	4M	2	2
		UNIT-III			
5.		Write a part program for the object shown below. All			
		dimensions are in mm.			
		I50			



14M 3

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OR

6.	a)	With the help of a neat sketch, explain the structure of CNC machine tools.	7M	3	3				
	h)	Compare and contrast advantages of computer assisted							
	υ)	part programming over manual part programming. UNIT-IV	7M	3	3				
7.	a)	Discuss on group technology. Justify its significance in							
	,	the integration of CAD and CAM.	10M	4	3				
	b)	Write a brief note on production flow analysis.	4M	4	3				
		OR							
8.		Discuss the principles of material handling. Name and							
		describe any four types of material handling devices.	14M	4	3				
		UNIT-V							
9.	a)	What are the fundamental concepts in MRP? Explain							
	,	them.	7M	5	4				
	b)	Explain the method of part inspection using Co-ordinate							
	,	measuring machine.	7M	5	4				
OR									
10.	a)	Define computer aided quality control. Explain its							
	·	implementation in detail.	7M	5	4				
	b)	Compare online and offline inspection.	7M	5	4				
		END							