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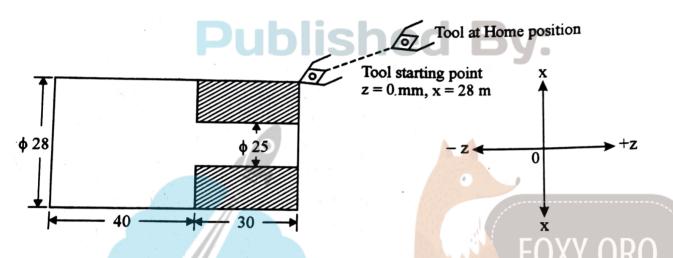
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VI Semester Diploma Examination, April/May-2019

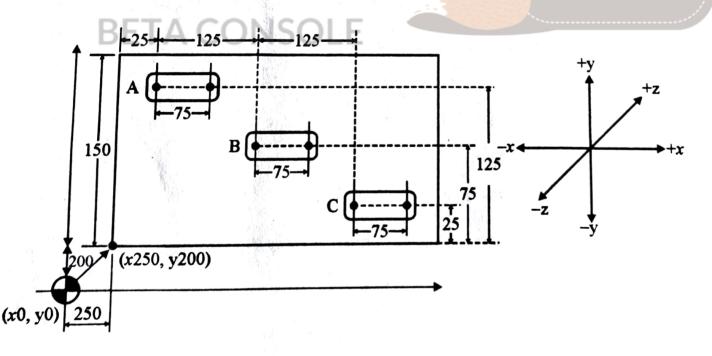
COMPUTER INTEGRATED MANUFACTURING

	•	OTHER INTEGRATED MANUFACTURING		
Tin	Time: 3 Hours] [Max. Marks: 100			
Note	·:	 (i) Answer any six questions from PART - A. (ii) Answer any seven questions from PART - B. (iii) All Dimensions are in num only. 		
		PART - A		
I.	Def	ine automation and mention its needs.	5	
2.	List	ten strategies of Automation and Production system.	5	
3.	List	advantages and disadvantages of NC system.	5	
4.	Exp	plain Direct and Indirect Tool Monitoring System. FOXY ORO	5	
5.	Exp		5	
6.	Exp		5	
7.	List	the benefits of Group Technology.	5	
8.	Def	ine FMS and list the major elements of FMS.	5	
9.	Exp	plain Walk through method of Robot programming.	5	
		PART - B		
10.	(a)	Explain about the main elements of CIM system.	7	
	(b)	Mention the levels of automation.	3	
11.	(a)	Sketch and explain basic components of NC System	7	
	(b)	Mention the types of NC motion control system.	3	
12.	(a)	List the factors considered in the design of guide ways.	5	
	(b)	Explain with a neat sketch Vee and Flat guide ways.	5	

1 of 4



17. Develop a Part Program using subroutine to mill the slots as shown in figure using absolute mode.



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(a)	Explain Option 3 of 4	
(b)	Explain OPTIZ coding system used in group technology. Explain Retrieval type Computer aided process planning. Sketch and explain Society.	1522
(a)	Sketch and	5
(b)	Sketch and explain SCARA Robot. Sketch and explain six degrees of freedom in robot arm.	5
	six degrees of freedom in robot arm	5
		5

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