Paper Code: ETMT.308					
rupe	erc	Code: ETMT-308	Subject	t: Computer Int	
Time	2: 3	Hours		Manufacturi	egrated
Note: Attempt any five questions including Q.no.1 which is compulsory. Select one question from each Unit					
		Select the five questions including	Q.no. 1	which is comp	ulsoru
01 3	(0)	Select one question from	each U	nit.	atoor y.
32	(c) (d)	Why do CNC machines require design changes what is CIM? For any manufactured product Discuss the input and output of a MRP system Differentiate between the variant and general Write short notes on agile manufacturing system.	em.	important data.	erparts?((5) (5) (5) (5)
Q2	(a)	Explain stick-slip motion and how they are r Write a NC program to machine the alumi diameter blank, 65 mm long is to be used.		n CNC machine? rt shown below. A	· · · ·
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		XZ zoro	5		
		All dimensions are in n	nm		
Q3	(a)	Explain the special construction features of	of a CNC	machine and ju	stify its
		requirements. Differentiate between canned cycle and subro Unit-II			(5)
Q4	(a)	What are the reasons for implementing CAI	D/CAM a	applications in des	ign and
	(b)	manufacturing process? Discuss the working of automatic tool changemachine.	ger (ATC)	and preset tool in	(5) a CNC (7.5)
75 /	(2)	Sketch any two work holding devices used	in CNC	machine and disc	nice ite
25		characteristics features. Write short note on decision support system a			(5) (7.5)
16	(0)	Unit-III Discuss how the Japanese word for card	(Kanban) has application	in the
26		implementation of JIT.			(5)
	(b)	Differentiate between material requirement presource planning (MRP-II).	olanning	(MRP) and manufa	(7.5)
27	(a)	Discuss the advantages and disadvantages of Describe just-in-time production system.	an ERP.		(5) (7.5)
-		Unit-1V	1	C	(5)
8	(b)	Define industrial robot and sketch four comm Discuss the advantages and disadvantages of (CAPP) over the conventional method of proces	ss planni	ing.	lanning (7.5)
9	(b) 3	Discuss the methods of features classificat aided process planning (CAPP). Write short notes on lean manufactur	ion and	recognition in co	mputer (5) gurable (7.5)
	1	manufacturing system.			