Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

Su Ti	ıbject	Name 0:30 A	320015 : M.S. & P.D. M TO 1:30 P.				Date: 17 /06 /201 Total Marks: 7		
	 M Fi 	ake suita gures to	ny five questions. able assumptions the right indicate tion carry equal m	wherever a full marks.					
Q.1	(a)	Draw a typical fabrication drawing and write sequence of drawing reading.							
	(b)	What	is fit? Explain	n differe	nt types o	of fit with 1	neat sketch	07	
ე.2	(a)	•	ain commercial form of metal as per BIS in following lated format						
		Sr. No.	Description	Symbol	Dimensions to be specified of the profile section		Designation Example		
					letter	figure			
	(b)	Explai	in different ty	pes of p	iping flan OR	ges with n	eat sketch	07	
	(b)	Draw	following wel	d symbo				07	
	` ,	1.	Butt weld	,					
		2.	Square butt	weld					
		3.	Single v but	t weld					
		4.	Single beve	l butt we	ld				
		5.	Single V but	t weld w	ith broad	d root face			
		6	Single hove		المالية المالية		t		

		8. Single J butt weld	
		9. Backing run weld	
		10. Fillet weld	
		11. Plug weld	
		12. Spot weld	
		13. Seam weld	
		14. Flat (flush) single V butt weld	
Q.3		Draw following views of object shown in FIG-1 by using 1 st angle projection system	14
		 Front view RHSV 	
		3. Top plan	
		OR	
Q.3		Draw by 1 st angle projection system of object shown in Fig -2	14
		1. Sectional elevation along A-A	
		2. RHSV	
		3. LHSV	
		4. Sectional plan alon B-B	
Q.4		Draw Isometric view of given orthographic views shown in FIG-3	14
		OR	
Q.4		Make detail drawing of cotter joint shown in FIG-4	14
Q.5		Draw development of Part-A of object shown in FIG-5	14
		OR	
Q.5	(a)	Draw neat sketch and label different parts of following process equipment	07
	(b)	 Pressure vessel Shell and tube heat exchanger Draw N or Z type nomograph of equation E=I*R 	07
		Where I = 0 to 70 Amp	

7. Single U butt weld

Find value of E when I=40 Amp. And R=70 Ohm

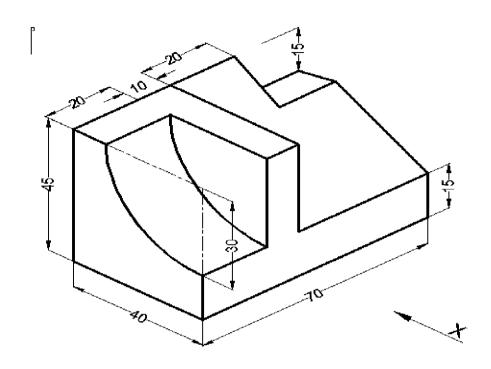


FIG-1 ALL DIMENSIONS ARE IN MM

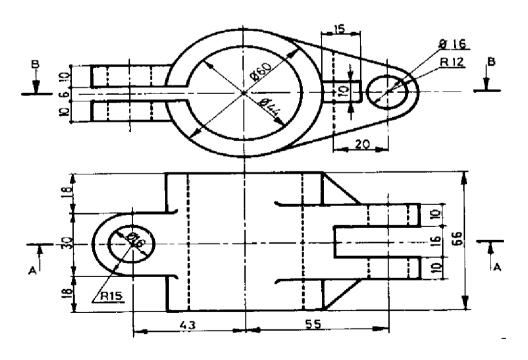


FIG-2 ALL DIMENSIONS ARE IN MM

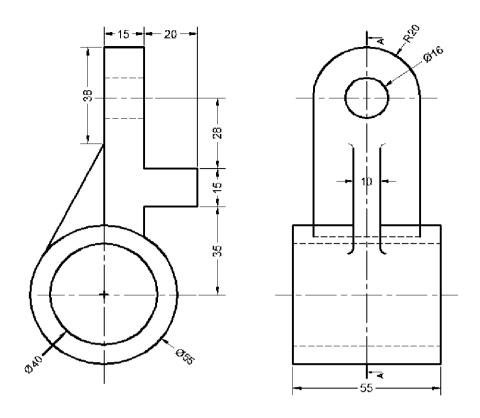


FIG-3 ALL DIMENSIONS ARE IN MM

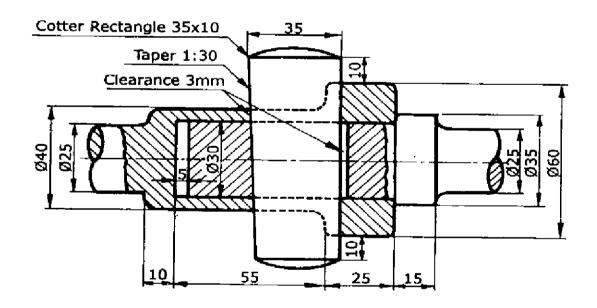


FIG-4 ALL DIMENSIONS ARE IN MM

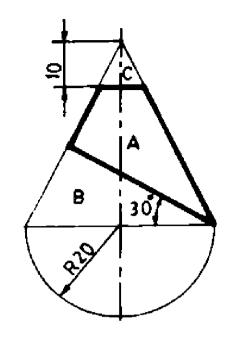


FIG-5 ALL DIMENSIONS ARE IN MM
