Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering - SEMESTER–III • EXAMINATION – SUMMER • 2014

Subject Code: 3335501 Date: 11-06-2014

Subject Name: Fabrication Drafting

Time: 10:30 am - 01:00 pm Total Marks: 70

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**
4. **English version is considered to be Authentic.**

Q.1	(a)	Draw a typical fabrication drawing and prepare its Bill of Material (BOM).	**07**
	(b)	What is fit? Explain different types of fit with neat sketches.	**07**
Q.2	(a)	Draw neat sketch and label different parts of following process equipment : 1. Pressure vessel 2. Shell and tube heat exchanger	**07**
	(b)	Draw following structural set-up and fit-up: 1. Angle to angle joint at 30 º 2. Channel to channel joint at 45 º 3. I beam to I beam joint at 90 º	**07**
		OR	
	(b)	Draw piping-line-diagram and label different piping elements in it. Write application of different piping elements	**07**
Q.3		Draw following views of object shown in fig.-1 1. Full sectional elevation 2. RHSV 3. Top plan	**14**
		OR	
Q.3		Draw projections of the Object shown in Fig.-2 by 1 st angle projection system: 1. Sectional elevation along A-A 2. RHSV 3. LHSV 4. Sectional plan alon B-B	**14**
Q.4		Draw isometric projection of object shown in Fig.-3	**14**
		OR	
Q.4		Draw detail drawing of cotter joint shown in Fig.4	**14**
Q.5		Draw development of object shown in Fig. 5	**14**
		OR	
Q.5		A frustum of cone, diameter of base 75 mm, diameter of top 35 mm and height 60 mm, is resting on H.P. on its base. A cylinder, diameter of base 40 mm, intersects the axis of frustum of cone at right angle, 30 mm above the base. The axis of the cylinder is parallel to H.P. and V.P. both. Draw three projections with lines of intersection.	**14**

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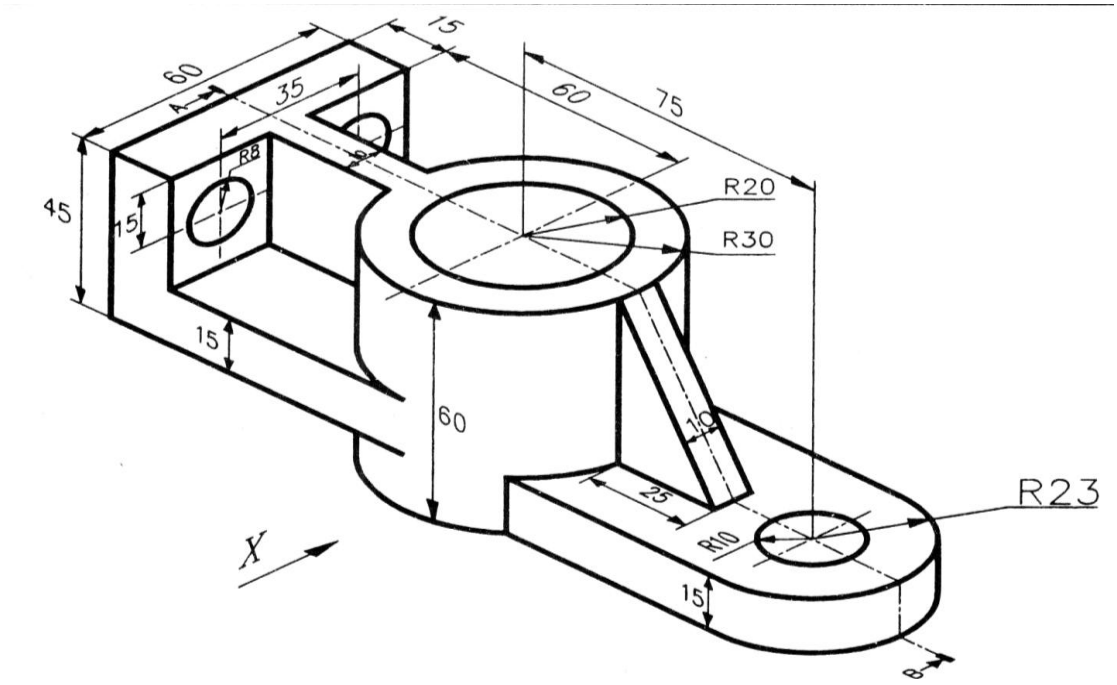

FIG-1 ALL DIMENSIONS ARE IN MM

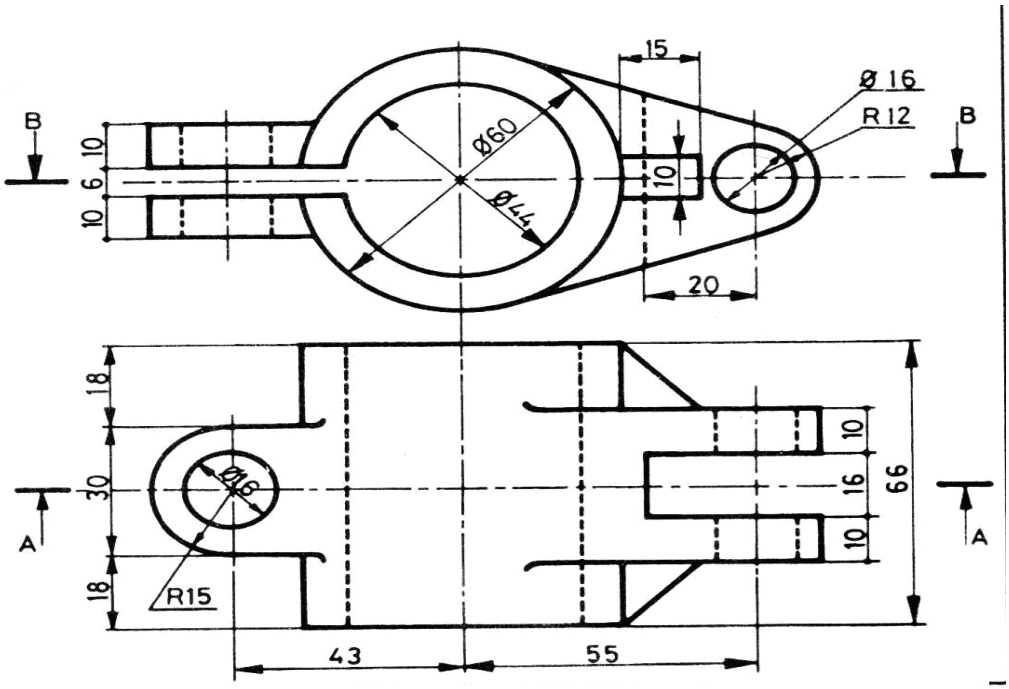

FIG-2 ALL DIMENSIONS ARE IN MM

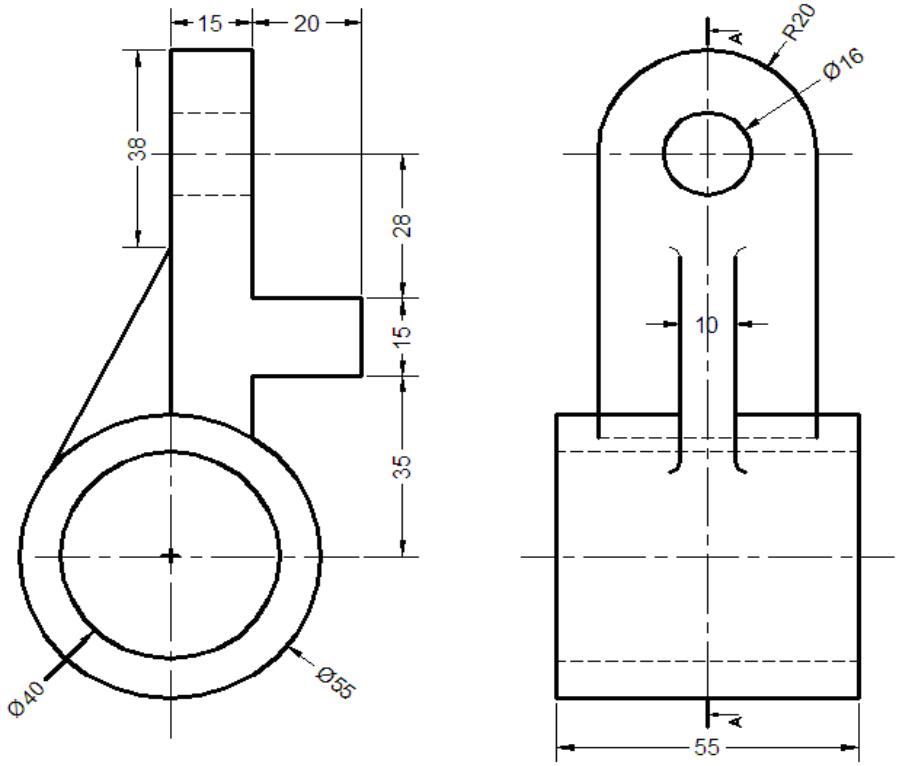

FIG-3 ALL DIMENSIONS ARE IN MM

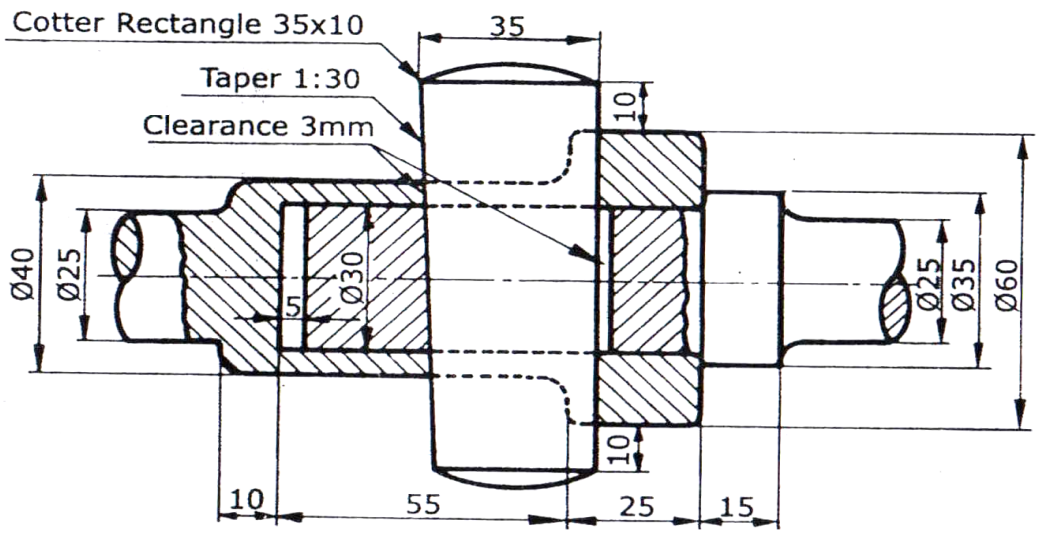

FIG-4 ALL DIMENSIONS ARE IN MM

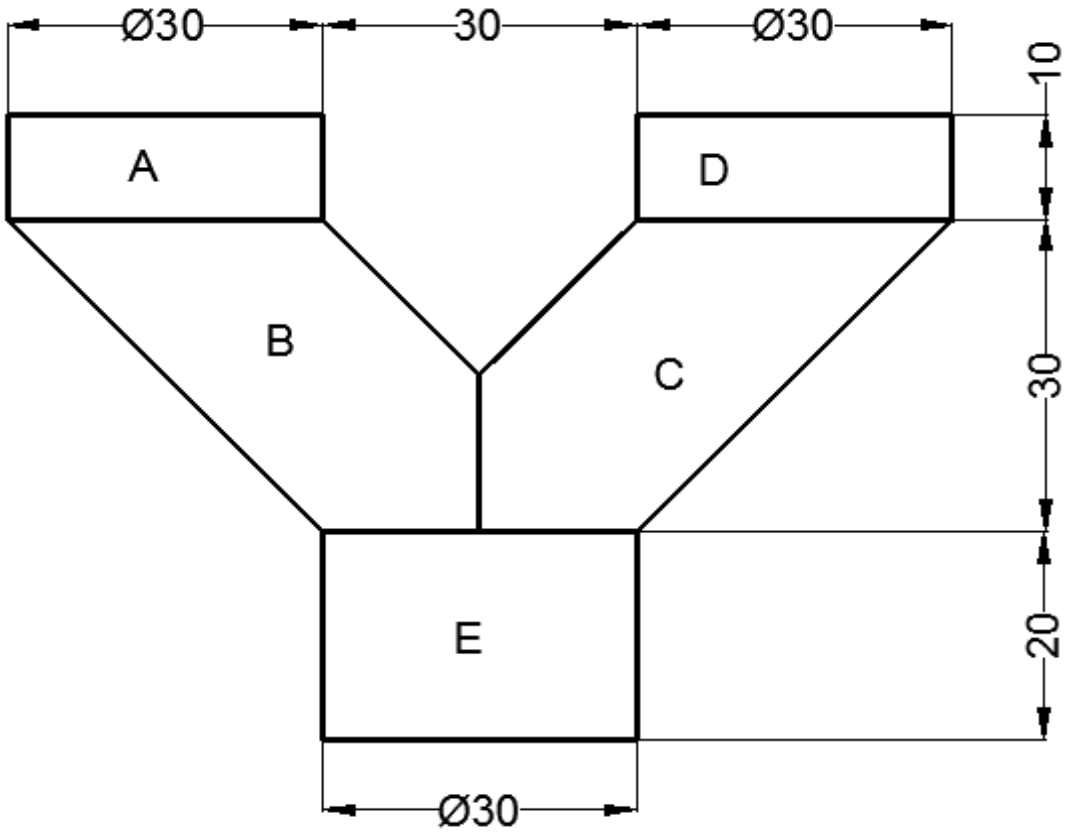

FIG-5 ALL DIMENSIONS ARE IN MM

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