

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER –III • EXAMINATION – WINTER-2016

Subject Code: 3335501**Date: 17-11-2016****Subject Name: Fabrication Drafting****Time: 10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Each question carry equal marks (14 marks)

- Q.1** (a) Explain following terms w.r.t. dimensional tolerance with neat sketch **07**
1. Basic dimension
2. Upper deviation
3. Lower deviation
4. Tolerance zone
5. Unilateral limits
6. Bilateral limits
7. Allowance
(b) What is lay? Explain different types of lay with neat sketch **07**
- Q.2** (a) Draw neat sketch and label different parts of following process equipment **07**
1. Basket type short tube vertical evaporator
2. Different types of Anchor agitator
3. Different types of Turbine agitator
(b) Draw following structural set up and fit up **07**
1. Angle to angle joint at 60 °, 90 °
2. Channel to channel at 30 °, 90 °
3. I beam to I beam at 45 °, 60 °
OR
(b) Draw a typical process flow diagram(PFD) and label different elements in it **07**
- Q.3** Draw following views of object shown in FIG-1 by using 1st angle projection system **14**
1. Front view
2. RHSV
3. Top plan
OR
- Q.3** Draw by same system of projection following views of object shown in Fig -2 **14**
1. Full Sectional elevation along A-A
2. LHSV
3. Top plan
- Q.4** Draw Isometric view of object 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,B,C and D of object shown in FIG-5 14
- OR
- Q.5 A vertical cylinder, diameter of base 40 mm and height 65 mm, is resting on H.P. on its base. It is penetrated by a horizontal cylinder, diameter of base 35 mm and height 70 mm. Axes of two cylinders bisect each other at right angles. Draw their projections showing on them curves of intersection assuming the axis of penetrating cylinder parallel to V.P. 14

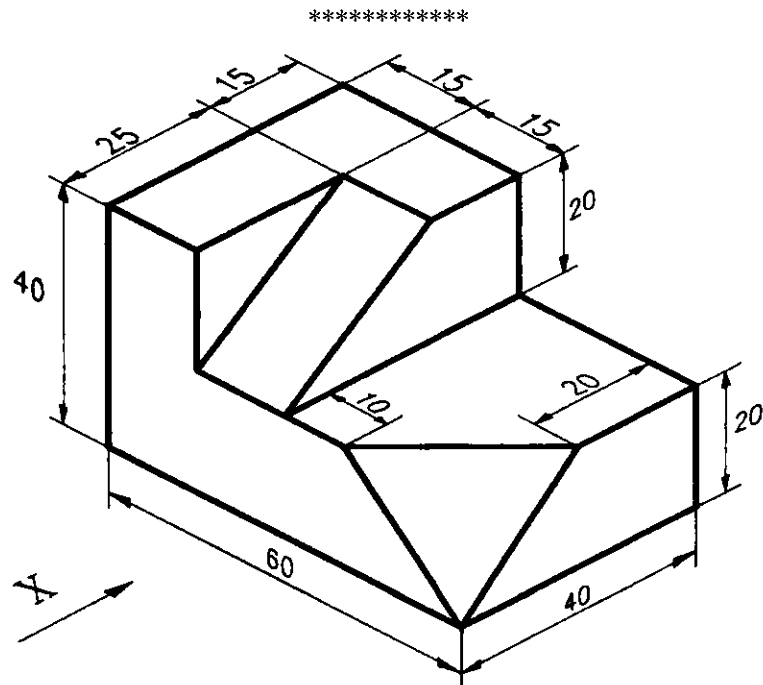


FIG-1 ALL DIMENSIONS ARE IN MM

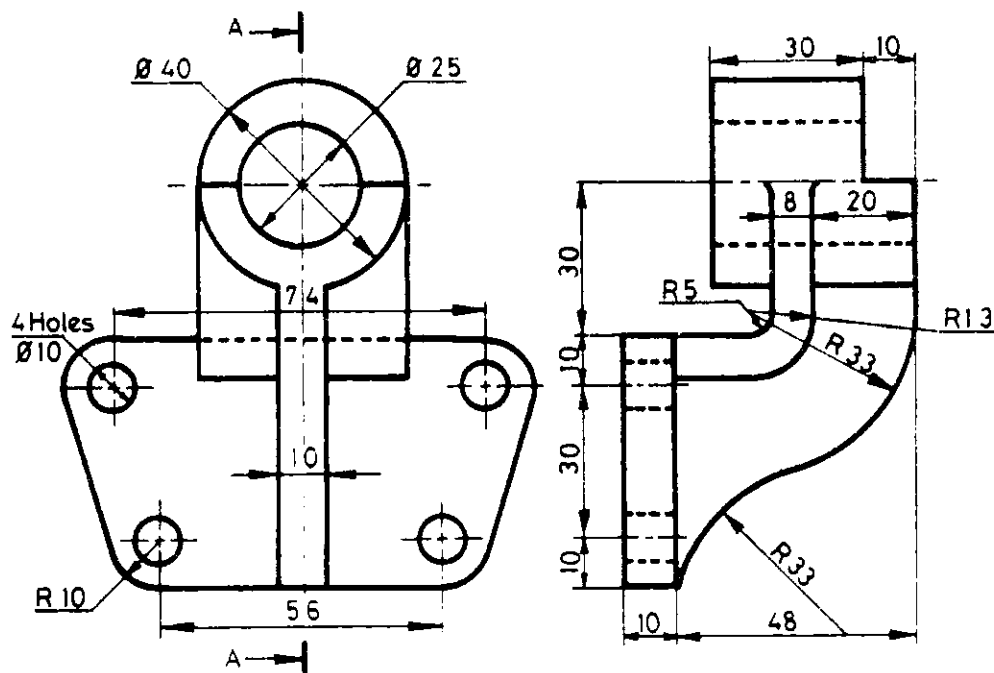
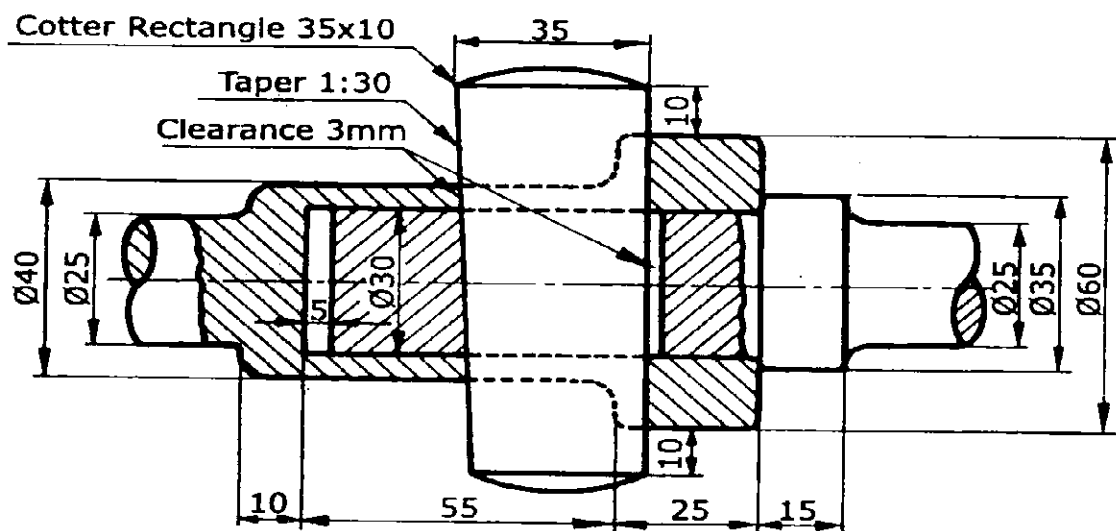
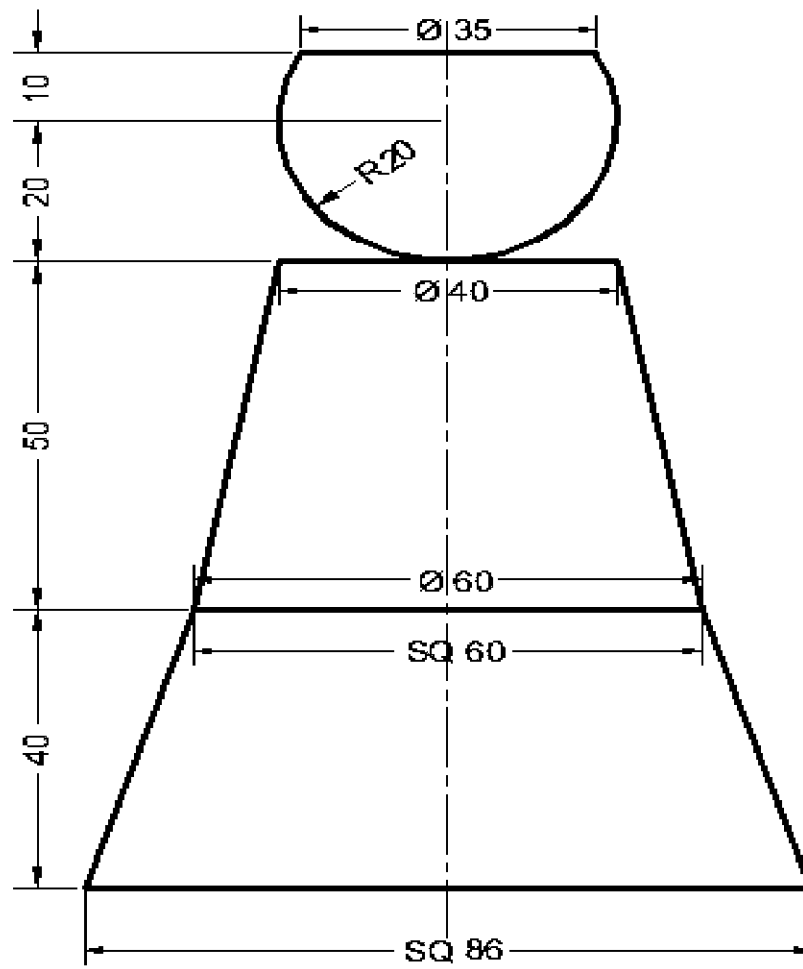


FIG-2 ALL DIMENSIONS ARE IN MM



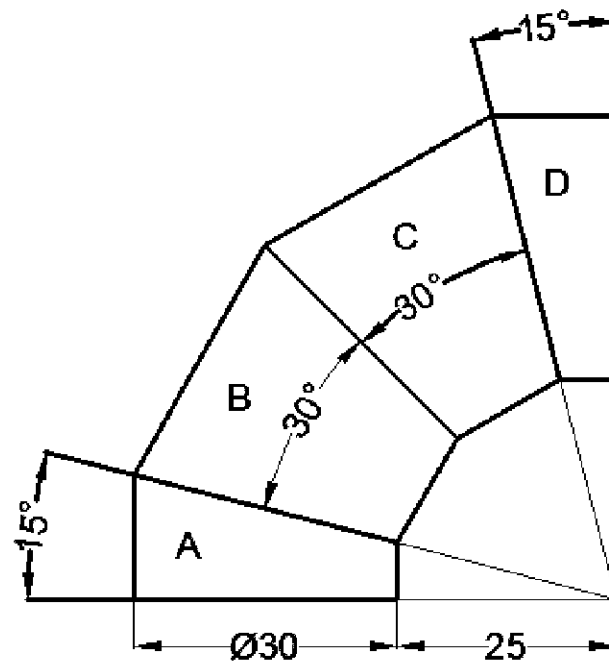


FIG-5 ALL DIMENSIONS ARE IN MM
