

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**DIPLOMA ENGINEERING – SEMESTER – III • EXAMINATION – WINTER 2015**

**Subject Code: 3335501****Date: 12-12 -2015****Subject Name: Fabrication Drafting****Time: 10:30 AM TO 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. Use of programmable & Communication aids are strictly prohibited.
5. Use of only simple calculator is permitted in Mathematics.
6. English version is authentic.

- Q.1** (a) Draw a typical fabrication drawing and write sequence of drawing reading. **07**  
 (b) Draw neat sketch and label different parts of following process equipment : **07**  
 1. Pressure vessel  
 2. Shell and tube heat exchanger
- Q.2** (a) Draw following riveted joint: **07**  
 1. Triple riveted zig-zig lap joint  
 2. Double riveted chained lap joint  
 (b) Draw following piping symbol: **07**  
 1. Elbow 90°  
 2. Reducer  
 3. Tee  
 4. Cross  
 5. Gate valve  
 6. Stop cock  
 7. Safety valve  
 8. Expansion joint  
 9. Union  
 10. Elbow turn down  
 11. Centrifugal pump  
 12. Tank  
 13. Reciprocating compressor  
 14. Condenser
- OR**
- (b) Draw a typical process flow diagram (PFD) and label different elements in it. **07**
- Q.3** Draw (i) Full Sectional Elevation (ii) Top Plan (iii) L.H.S.V. of object shown in Fig. - 1 using 1<sup>st</sup> Angle system. **14**
- OR**
- Q.3** Draw by same method of projection, following views of an object shown in Fig. - 2 **14**  
 (i) Front View  
 (ii) Sectional side view, take section along X-X  
 (iii) Top plan
- Q.4** Draw detail drawing of Cotter joint shown in Fig. - 3. **14**
- OR**
- Q.4** Draw Isometric View of an object from different views shown in Fig. - 4 **14**



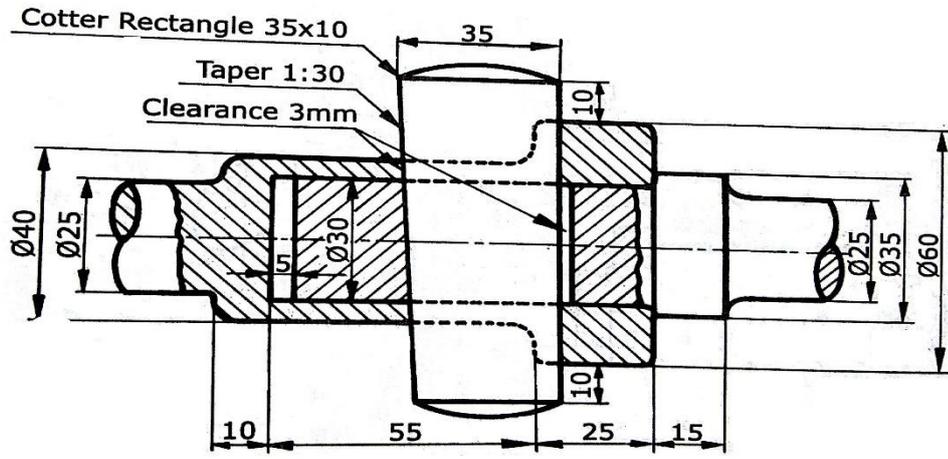


Figure 3. ALL DIMENSIONS ARE IN MM

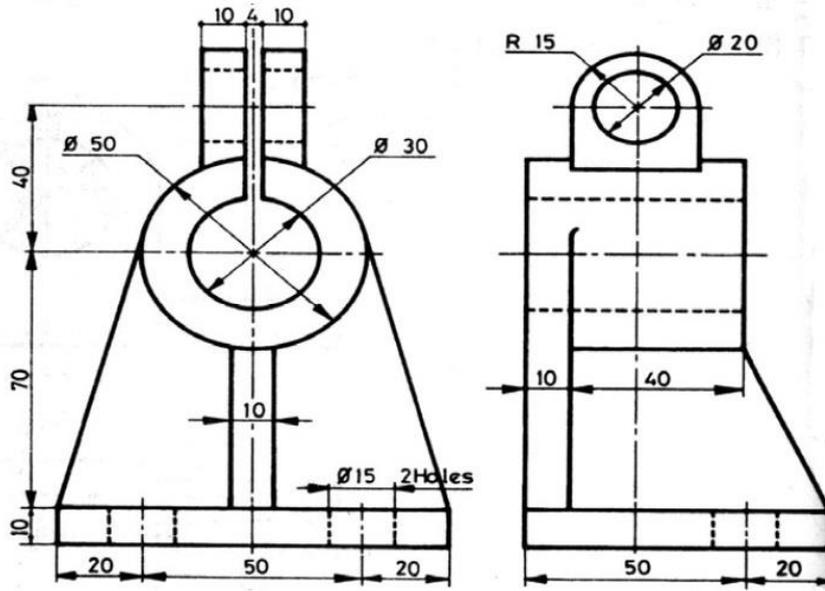


Figure 4. ALL DIMENSIONS ARE IN MM

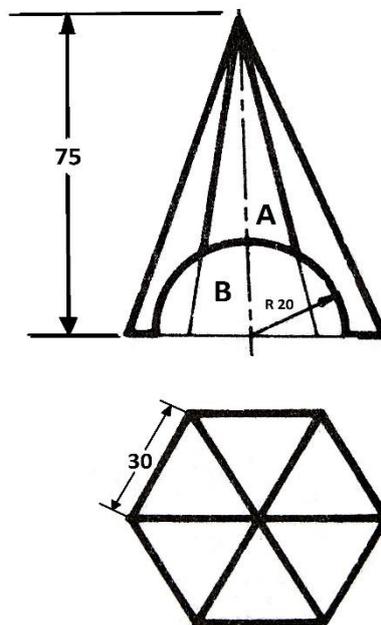


Figure 5. ALL DIMENSIONS ARE IN MM

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