INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY
Department of Mechanical Engineering

ME119 – Engineering Drawing and Graphics 2015-2016 Semester II

Sheet3a:-Orthograp hic Projections

Instructions:
1. Do not erase any construction lines
2. Clearly show all the required dimensions
3. Mention the scale used for each problem
4. For each problem, draw the symbol indicating whether first or third angle projection method is used

1. Figure 1 shows the orthographic projections of a solid using the first angle method of projection. Draw the three view (FV, TV, LHSV) using the third angle method of projection.

2. Figure 2 shows the orthographic projections of a solid using the third angle method of projection. Draw the three view (FV, TV, LHSV) using the first angle method of projection.

3. Using first angle method of projection, draw the front view, top view and the left hand side view of the object shown in Figure 3. The arrow indicates the direction from which the front view should be observed.

4. Using **third** angle method of projection, draw the front view, top view and the left hand side view of the object shown in Figure 4. The arrow indicates the direction from which the front view should be observed.

5. Using first angle method of projection, draw the front view, top view and the left hand side view of the object shown in Figure 5. The arrow indicates the direction from which the front view should be observed.

6. Using first angle method of projection, draw the front view, top view and the right hand side view of the object shown in Figure 6. The arrow indicates the direction from which the front view should be observed.

7. Using first angle method of projection, draw the front view, top view and the right hand side view of the object shown in Figure 7. The arrow indicates the direction from which the front view should be observed.

8. Using **third** angle method of projection, draw the front view, top view and the left hand side view of the object shown in Figure 8. The arrow indicates the direction from which the front view should be observed.

9. Using first angle method of projection, draw the front view, top view and the left hand side view of the object shown in Figure 9. The arrow indicates the direction from which the front view should be observed.

10. Using first angle method of projection, draw the front view, top view and the right hand side view of the object shown in Figure 10. The arrow indicates the direction from which the front view should be observed.

11. Using first angle method of projection, draw the front view, top view and the right hand side view of the object shown in Figure 11. The arrow indicates the direction from which the front view should be observed.

12. Using **third** angle method of projection, draw the front view, top view and the right hand side view of the object shown in Figure 12. The arrow indicates the direction from which the front view should be observed.

13. Figure 13 shows the orthographic projections of a solid using the first angle method of projection. Draw the three view (FV, TV, LHSV) using the third angle method of projection.

14. Figure 14 shows the orthographic projections of a solid using the third angle method of projection. Draw the three view (FV, TV, LHSV) using the first angle method of projection.

15. Using **third** angle method of projection, draw the front view, top view and the left hand side view of the object shown in Figure 15. The arrow indicates the direction from which the front view should be observed.

16. Using first angle method of projection, draw the front view, top view and the right hand side view of the object shown in Figure 16. The arrow indicates the direction from which the front view should be observed.

17. Using first angle method of projection, draw the front view, top view and the right hand side view of the object shown in Figure 17. The arrow indicates the direction from which the front view should be observed.

18. Using first angle method of projection, draw the front view, top view and the right hand side view of the object shown in Figure 18. The arrow indicates the direction from which the front view should be observed.

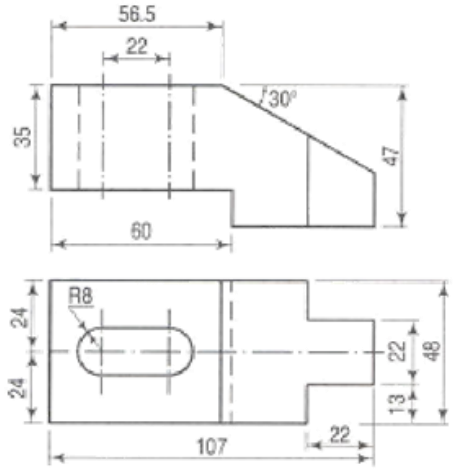

Figure 1

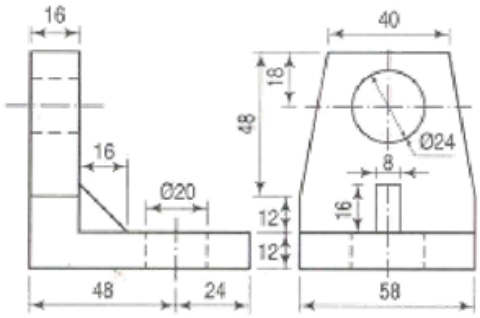

Figure 2

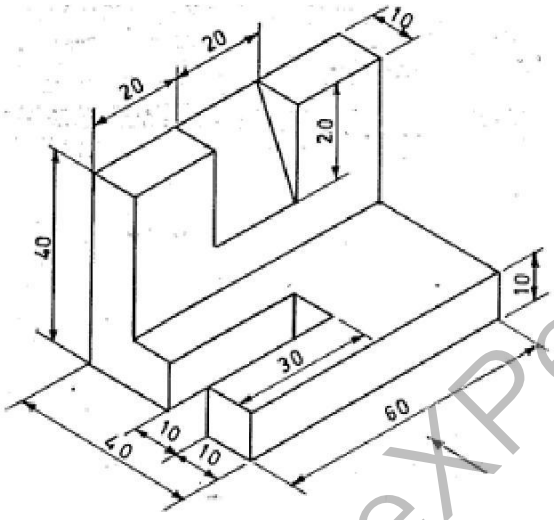

Figure 3

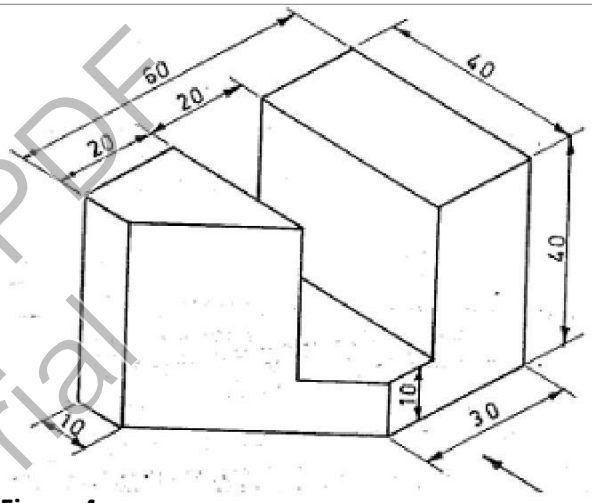

Figure 4

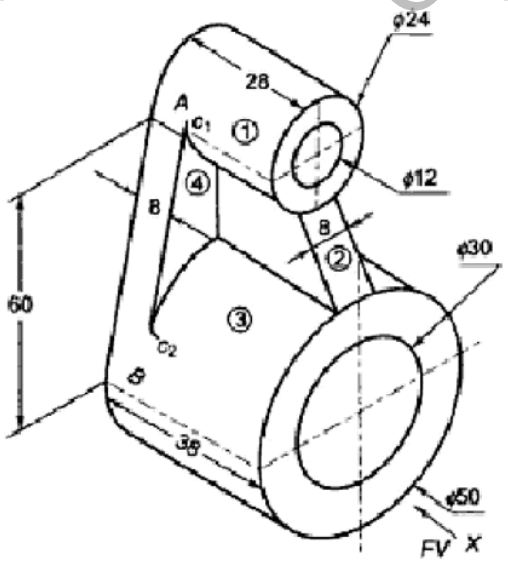

Figure 5

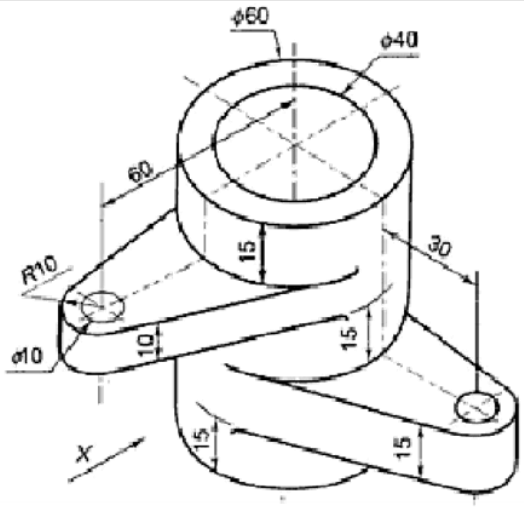

Figure 6

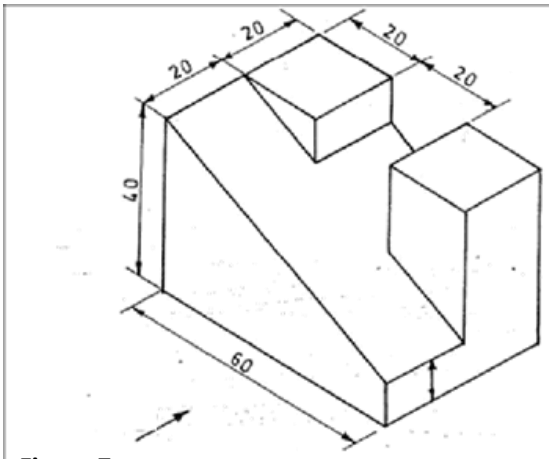

Figure 7

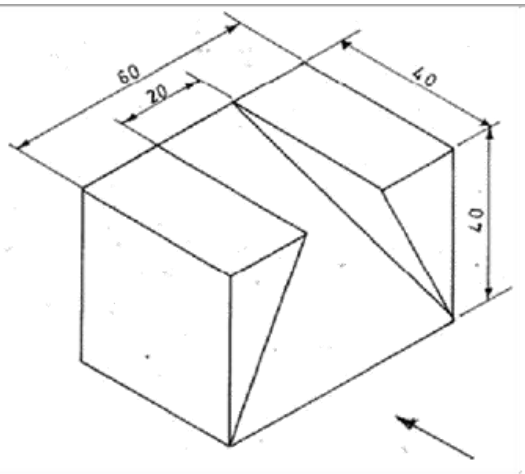

Figure 8

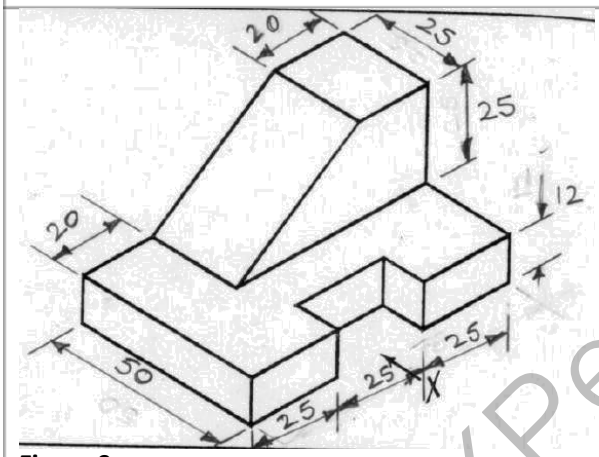

Figure 9

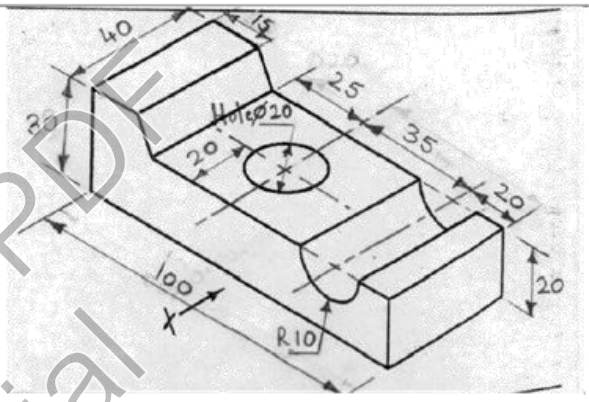

Figure 10

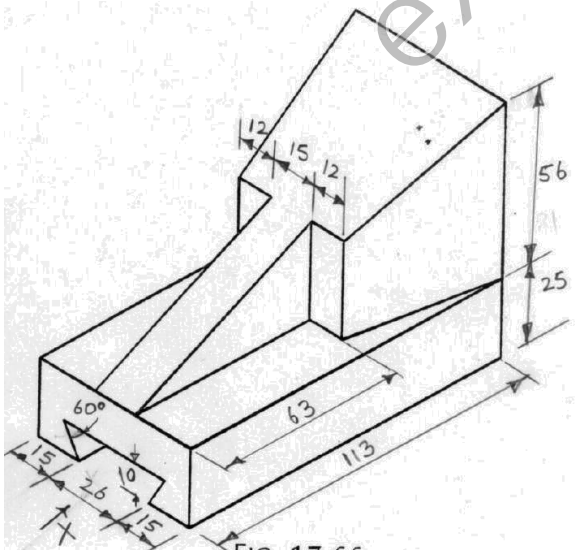

Figure 11

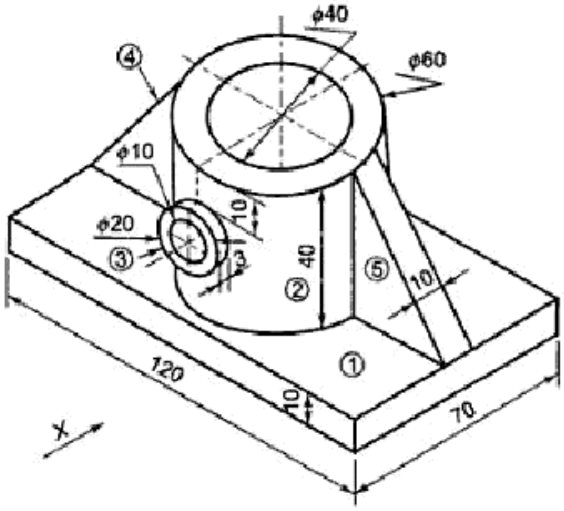

Figure 12

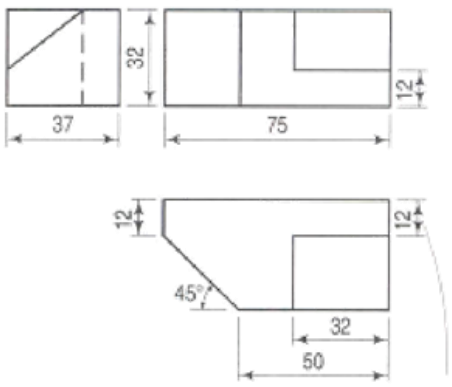

Figure 13

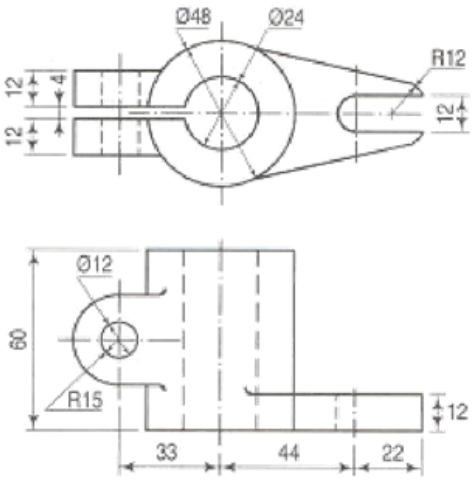

Figure 14

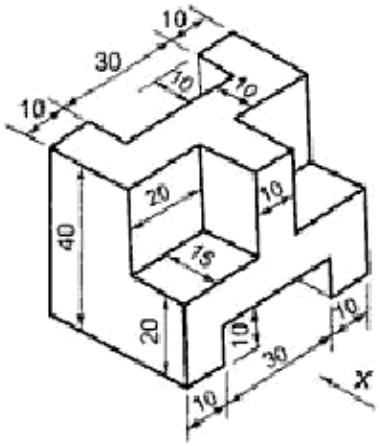

Figure 15

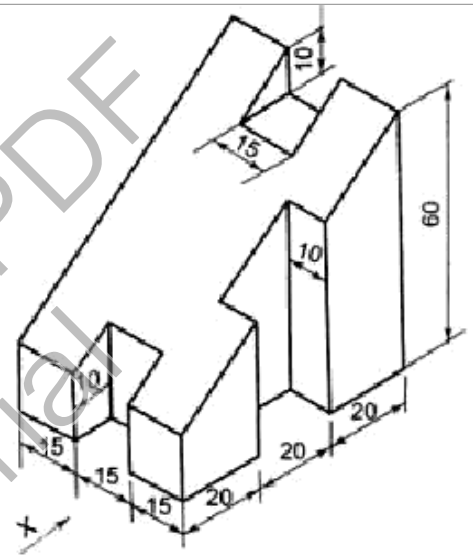

Figure 16

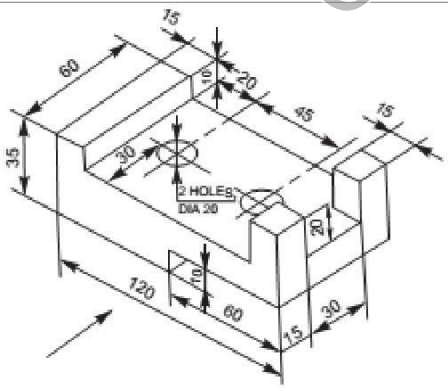

Figure 17

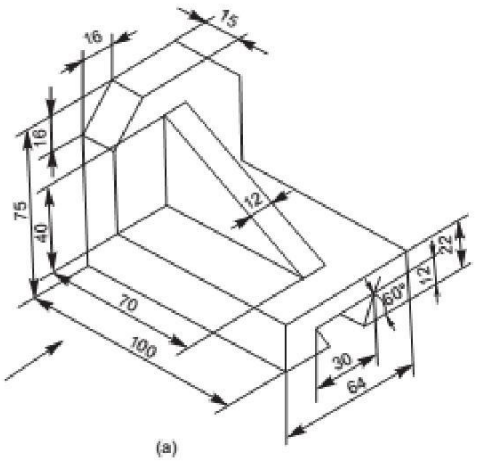

Figure 18