Code.No: 07A10291 | R07 | SET-1

I B.TECH – EXAMINATIONS, JUNE - 2011
ENGINEERING DRAWING

Time: 3hours **Max.Marks:80**

Answer any FIVE questions
All questions carry equal marks

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1. Draw the locus of a point P moving so that the ratio of the distance from a fixed point F to its distance from a fixed straight line is 0.75. Point P is at a distance of 70mm from the straight line. Also, draw the tangent and normal to the curve. [16]

2. The asymptotes of a hyperbola are inclined at 75^0 to each other. A point Q on the curve is 35mm and 45mm from the asymptotes. Construct the curve showing at least 5 points on either side of Q. [16]

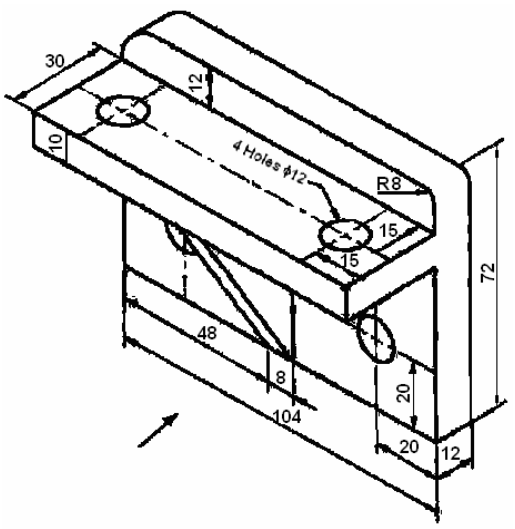
3. a) A point A is 20mm above HP and 30mm in front of VP. Another point B is 35mm below HP and 45mm behind VP. Draw the projections of these points taking the distance between the end projectors as 80mm. Also find the length of the line joining their plans and elevations.
   b) The length of the plan of a straight line AB is 50mm and length of the elevation is 70mm. The plan ab is inclined at 30^0 to XY line. Draw the projections of the line AB, assuming point A to be situated on HP and 20mm in front of VP. Also find the true length and inclinations with HP and VP. [8+8]

4. A pentagonal plate of side 30mm is resting on HP on one of its sides with its surface inclined at 45^0 to HP and the resting side is inclined at 55^0 to VP. Draw its projections. [16]

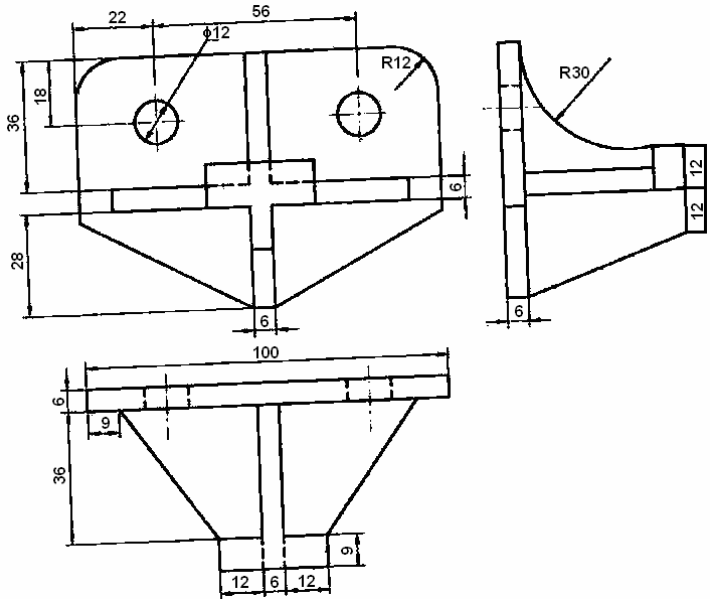
5. Draw the projections of a right cylinder of diameter 45mm and axis 60mm when its axis makes an angle of 30^0 with the HP and 45^0 with VP. [16]

6. A hexagonal prism of base side 30mm and axis length 60mm is resting on HP on its base with a side of base parallel to VP. Draw the isometric view of the prism. [16]

7. Draw the front, top and right hand side view of the isometric view given below. All dimensions are in mm. [16]



8. Draw the isometric view. All dimensions are in mm. [16]



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Code.No: 07A10291 | R07 | SET-2

I B.TECH – EXAMINATIONS, JUNE - 2011
ENGINEERING DRAWING

Time: 3hours **Max.Marks:80**

Answer any FIVE questions
All questions carry equal marks

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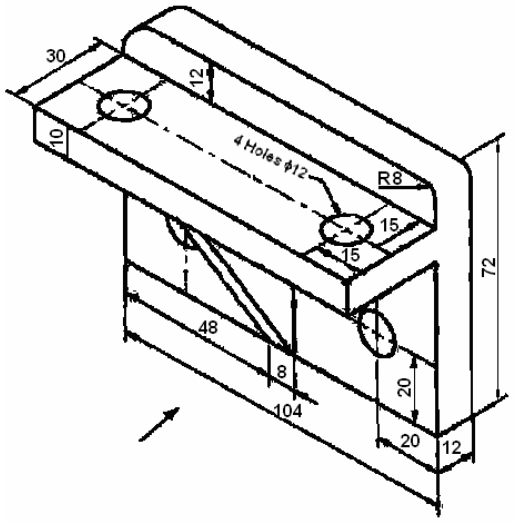
1. a) A point A is 20mm above HP and 30mm in front of VP. Another point B is 35mm below HP and 45mm behind VP. Draw the projections of these points taking the distance between the end projectors as 80mm. Also find the length of the line joining their plans and elevations.
   b) The length of the plan of a straight line AB is 50mm and length of the elevation is 70mm. The plan ab is inclined at 30^0 to XY line. Draw the projections of the line AB, assuming point A to be situated on HP and 20mm in front of VP. Also find the true length and inclinations with HP and VP. [8+8]

2. A pentagonal plate of side 30mm is resting on HP on one of its sides with its surface inclined at 45^0 to HP and the resting side is inclined at 55^0 to VP. Draw its projections. [16]

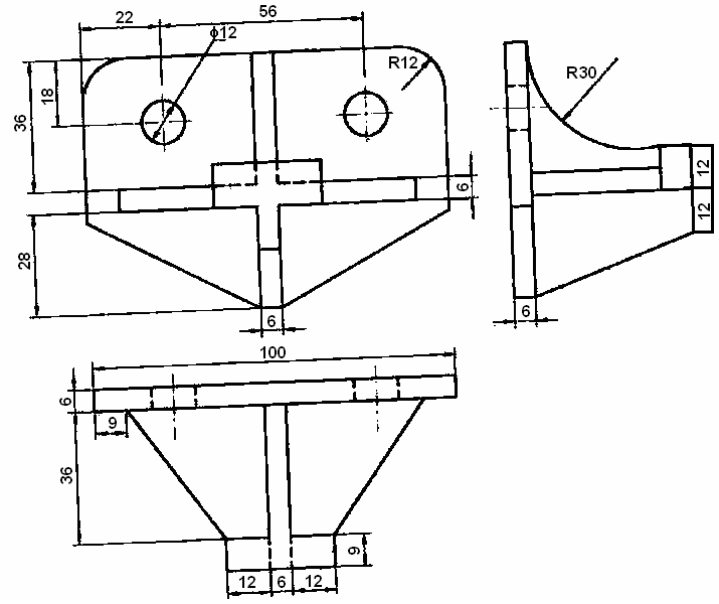
3. Draw the projections of a right cylinder of diameter 45mm and axis 60mm when its axis makes an angle of 30^0 with the HP and 45^0 with VP. [16]

4. A hexagonal prism of base side 30mm and axis length 60mm is resting on HP on its base with a side of base parallel to VP. Draw the isometric view of the prism. [16]

5. Draw the front, top and right hand side view of the isometric view given below. All dimensions are in mm. [16]



6. Draw the isometric view. All dimensions are in mm. [16]



7. Draw the locus of a point P moving so that the ratio of the distance from a fixed point F to its distance from a fixed straight line is 0.75. Point P is at a distance of 70mm from the straight line. Also, draw the tangent and normal to the curve. [16]

8. The asymptotes of a hyperbola are inclined at 75^0 to each other. A point Q on the curve is 35mm and 45mm from the asymptotes. Construct the curve showing at least 5 points on either side of Q. [16]

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Code.No: 07A10291 | R07 | SET-3

I B.TECH – EXAMINATIONS, JUNE - 2011
ENGINEERING DRAWING

Time: 3hours **Max.Marks:80**

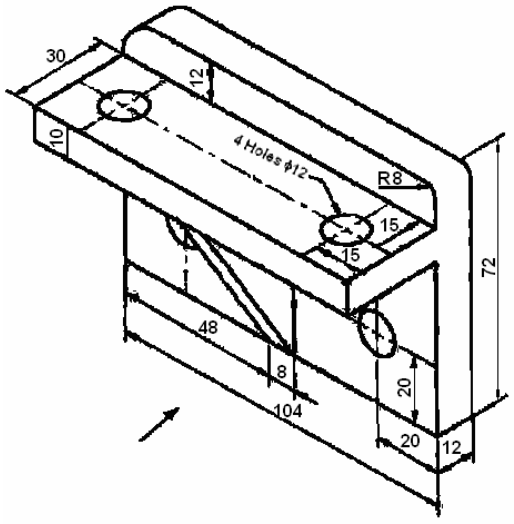
Answer any FIVE questions
All questions carry equal marks

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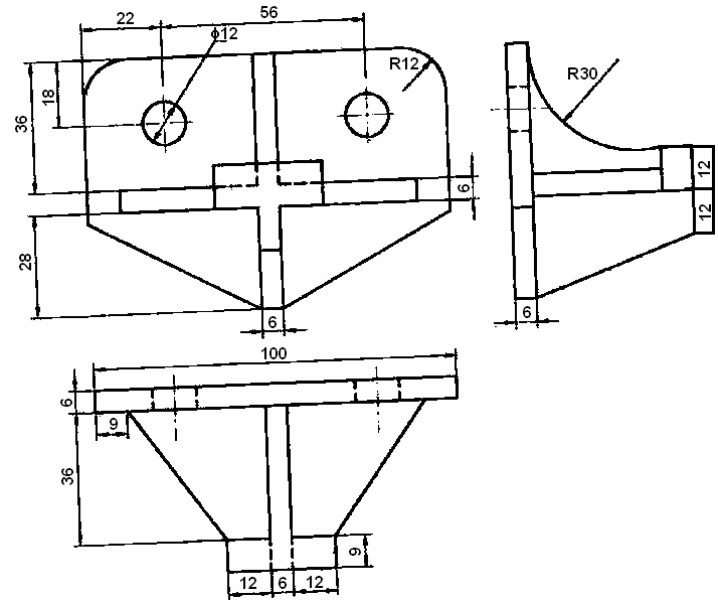
1. Draw the projections of a right cylinder of diameter 45mm and axis 60mm when its axis makes an angle of 30^0 with the HP and 45^0 with VP. [16]

2. A hexagonal prism of base side 30mm and axis length 60mm is resting on HP on its base with a side of base parallel to VP. Draw the isometric view of the prism. [16]

3. Draw the front, top and right hand side view of the isometric view given below. All dimensions are in mm. [16]



4. Draw the isometric view. All dimensions are in mm. [16]



5. Draw the locus of a point P moving so that the ratio of the distance from a fixed point F to its distance from a fixed straight line is 0.75. Point P is at a distance of 70mm from the straight line. Also, draw the tangent and normal to the curve. [16]

6. The asymptotes of a hyperbola are inclined at 75^0 to each other. A point Q on the curve is 35mm and 45mm from the asymptotes. Construct the curve showing at least 5 points on either side of Q. [16]

7. a) A point A is 20mm above HP and 30mm in front of VP. Another point B is 35mm below HP and 45mm behind VP. Draw the projections of these points taking the distance between the end projectors as 80mm. Also find the length of the line joining their plans and elevations.
   b) The length of the plan of a straight line AB is 50mm and length of the elevation is 70mm. The plan ab is inclined at 30^0 to XY line. Draw the projections of the line AB, assuming point A to be situated on HP and 20mm in front of VP. Also find the true length and inclinations with HP and VP. [8+8]

8. A pentagonal plate of side 30mm is resting on HP on one of its sides with its surface inclined at 45^0 to HP and the resting side is inclined at 55^0 to VP. Draw its projections. [16]

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Code.No: 07A10291 | R07 | SET-4

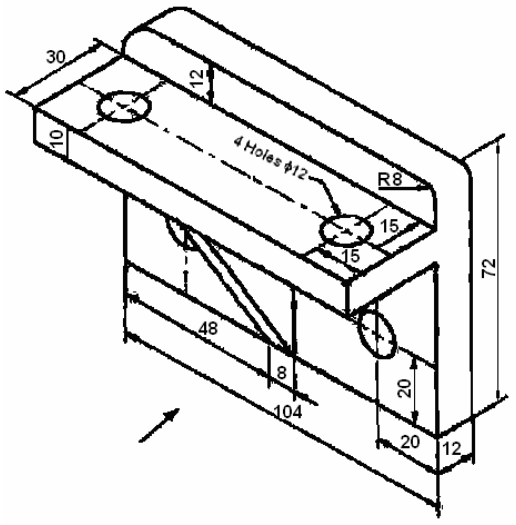
I B.TECH – EXAMINATIONS, JUNE - 2011
ENGINEERING DRAWING

Time: 3hours **Max.Marks:80**

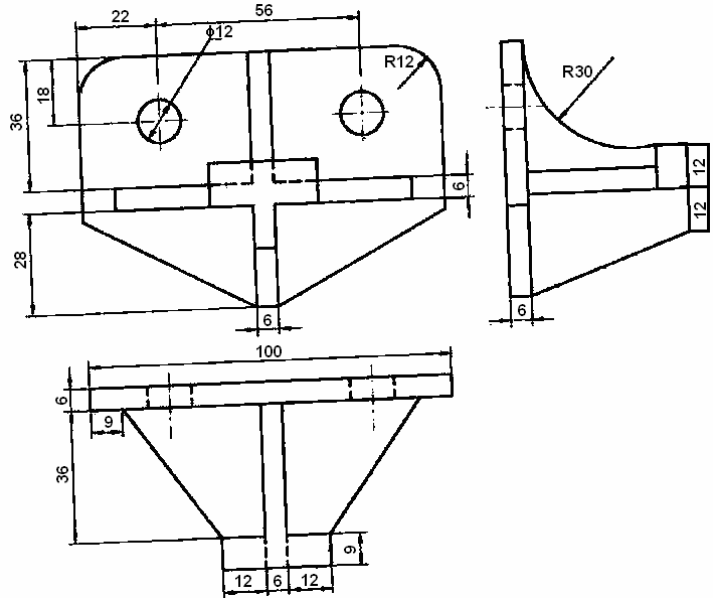
Answer any FIVE questions
All questions carry equal marks

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1. Draw the front, top and right hand side view of the isometric view given below. All dimensions are in mm. [16]



2. Draw the isometric view. All dimensions are in mm. [16]



3. Draw the locus of a point P moving so that the ratio of the distance from a fixed point F to its distance from a fixed straight line is 0.75. Point P is at a distance of 70mm from the straight line. Also, draw the tangent and normal to the curve. [16]

4. The asymptotes of a hyperbola are inclined at 75^0 to each other. A point Q on the curve is 35mm and 45mm from the asymptotes. Construct the curve showing at least 5 points on either side of Q. [16]

5. a) A point A is 20mm above HP and 30mm in front of VP. Another point B is 35mm below HP and 45mm behind VP. Draw the projections of these points taking the distance between the end projectors as 80mm. Also find the length of the line joining their plans and elevations.
   b) The length of the plan of a straight line AB is 50mm and length of the elevation is 70mm. The plan ab is inclined at 30^0 to XY line. Draw the projections of the line AB, assuming point A to be situated on HP and 20mm in front of VP. Also find the true length and inclinations with HP and VP. [8+8]

6. A pentagonal plate of side 30mm is resting on HP on one of its sides with its surface inclined at 45^0 to HP and the resting side is inclined at 55^0 to VP. Draw its projections. [16]

7. Draw the projections of a right cylinder of diameter 45mm and axis 60mm when its axis makes an angle of 30^0 with the HP and 45^0 with VP. [16]

8. A hexagonal prism of base side 30mm and axis length 60mm is resting on HP on its base with a side of base parallel to VP. Draw the isometric view of the prism. [16]

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