Code.No: 07A11291 | 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. Construct an ellipse when its major axis is equal to 100mm and minor axis is equal to 65mm. [16]

2. A vertex of a hyperbola is 65mm from its focus. Draw the curve if the eccentricity is 5/2. Draw a tangent and a normal to the curve at any point on the curve. [16]

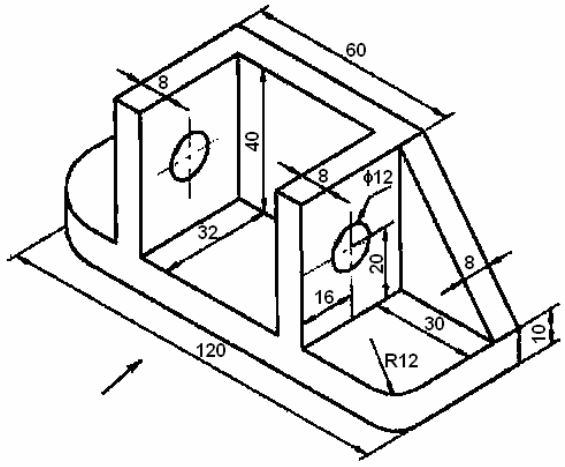
3. a)A point A is 15mm above HP and 25mm in front of VP. Another point B is 40mm below HP and 50mm behind VP. Draw the projections of these points taking the distance between the end projectors as 50mm. Also find the length of the line joining their plans and elevations.
   b)The length of the plan of a straight line AB is 45mm and length of the elevation is 65mm. 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 30mm in front of VP. Also find the true length and inclinations with HP and VP. [8+8]

4. A rectangular plane 60mm x 40mm size is resting on HP on one of its shorter edges with its surface inclined at 60^0 to HP and perpendicular to VP. Shortest edge is making an angle of 30^0 with VP. Draw its projections. [16]

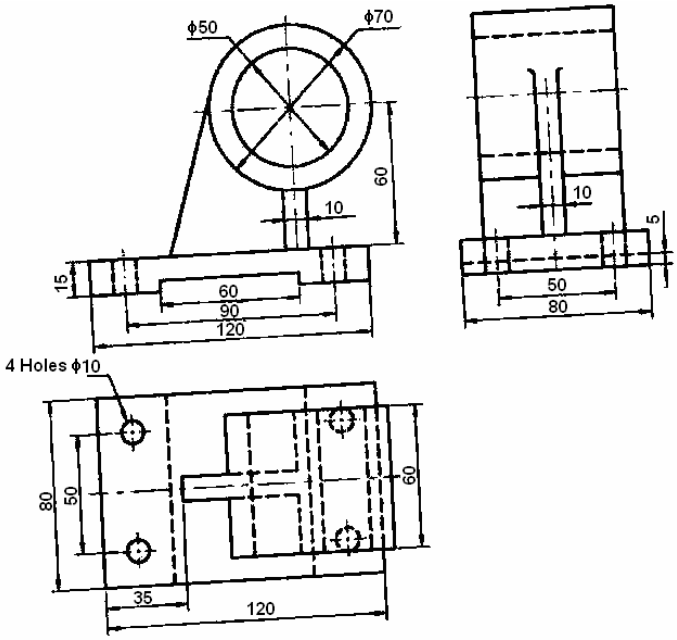
5. Draw the projections of a right circular cone of diameter of base 50mm and altitude 60mm when it lies on one of its generators on the HP with the vertical plane containing the axis making 45^0 with XY line and the vertex pointing towards VP. [16]

6. A hexagonal pyramid 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 pyramid. [16]

7. Draw the front, top and left 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: 07A11291 | 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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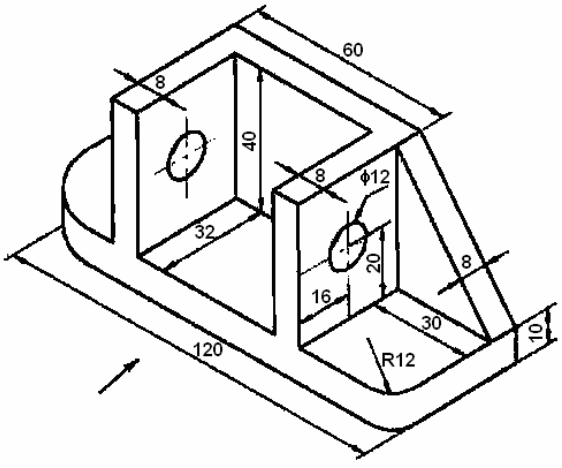
1. a)A point A is 15mm above HP and 25mm in front of VP. Another point B is 40mm below HP and 50mm behind VP. Draw the projections of these points taking the distance between the end projectors as 50mm. Also find the length of the line joining their plans and elevations.
   b)The length of the plan of a straight line AB is 45mm and length of the elevation is 65mm. 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 30mm in front of VP. Also find the true length and inclinations with HP and VP. [8+8]

2. A rectangular plane 60mm x 40mm size is resting on HP on one of its shorter edges with its surface inclined at 60^0 to HP and perpendicular to VP. Shortest edge is making an angle of 30^0 with VP. Draw its projections. [16]

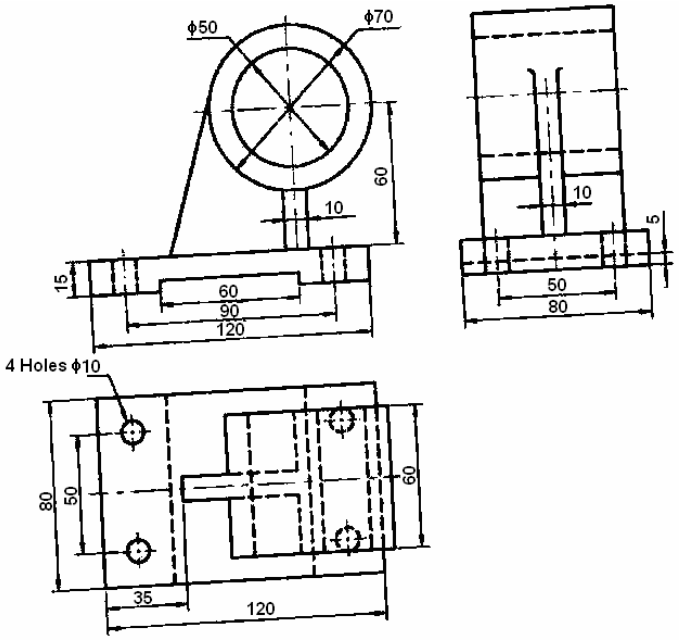
3. Draw the projections of a right circular cone of diameter of base 50mm and altitude 60mm when it lies on one of its generators on the HP with the vertical plane containing the axis making 45^0 with XY line and the vertex pointing towards VP. [16]

4. A hexagonal pyramid 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 pyramid. [16]

5. Draw the front, top and left 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. Construct an ellipse when its major axis is equal to 100mm and minor axis is equal to 65mm. [16]

8. A vertex of a hyperbola is 65mm from its focus. Draw the curve if the eccentricity is 5/2. Draw a tangent and a normal to the curve at any point on the curve. [16]

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Code.No: 07A11291 | R07 | SET-3

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

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

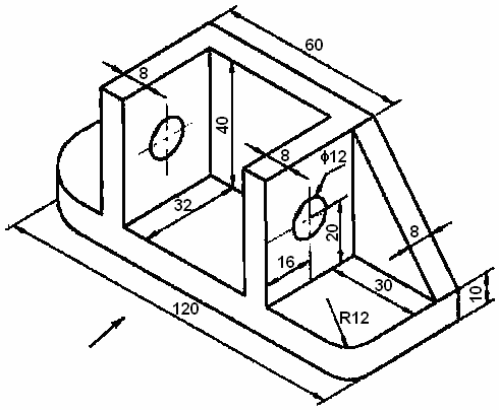
Answer any FIVE questions
All questions carry equal marks

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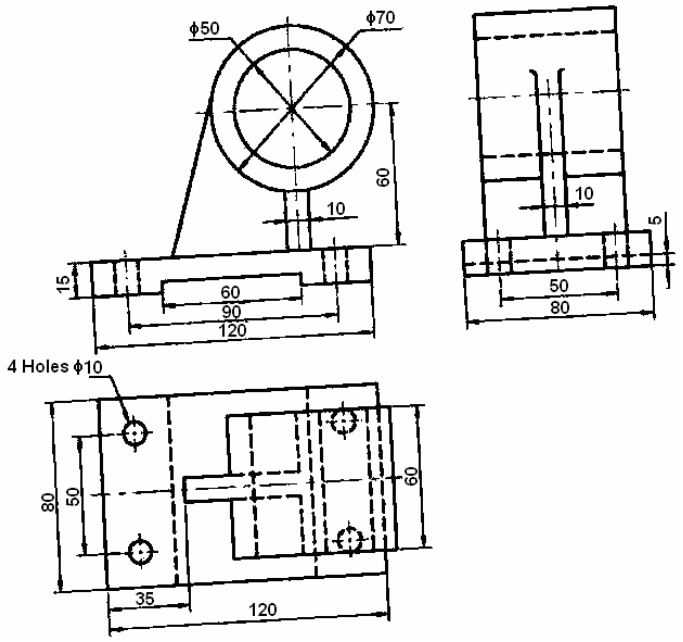
1. Draw the projections of a right circular cone of diameter of base 50mm and altitude 60mm when it lies on one of its generators on the HP with the vertical plane containing the axis making 45^0 with XY line and the vertex pointing towards VP. [16]

2. A hexagonal pyramid 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 pyramid. [16]

3. Draw the front, top and left 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. Construct an ellipse when its major axis is equal to 100mm and minor axis is equal to 65mm. [16]

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   b)The length of the plan of a straight line AB is 45mm and length of the elevation is 65mm. 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 30mm in front of VP. Also find the true length and inclinations with HP and VP. [8+8]

8. A rectangular plane 60mm x 40mm size is resting on HP on one of its shorter edges with its surface inclined at 60^0 to HP and perpendicular to VP. Shortest edge is making an angle of 30^0 with VP. Draw its projections. [16]

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Code.No: 07A11291 | R07 | SET-4

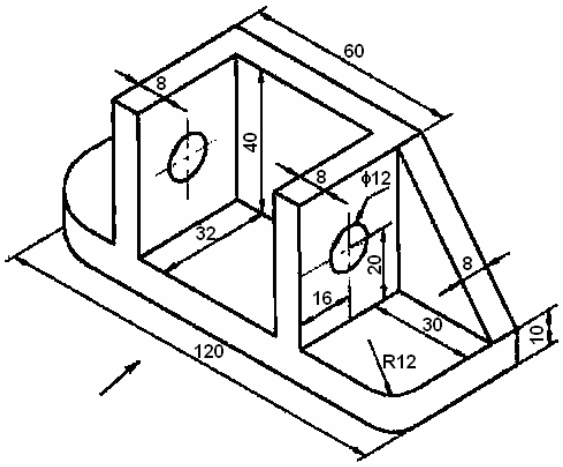
I B.TECH – EXAMINATIONS, JUNE - 2011
ENGINEERING DRAWING

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

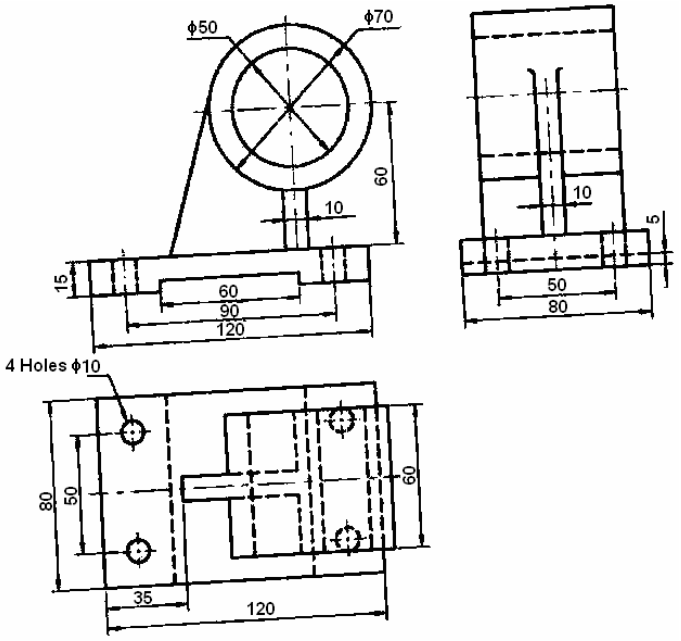
Answer any FIVE questions
All questions carry equal marks

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1. Draw the front, top and left 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. Construct an ellipse when its major axis is equal to 100mm and minor axis is equal to 65mm. [16]

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7. Draw the projections of a right circular cone of diameter of base 50mm and altitude 60mm when it lies on one of its generators on the HP with the vertical plane containing the axis making 45^0 with XY line and the vertex pointing towards VP. [16]

8. A hexagonal pyramid 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 pyramid. [16]

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