Code.No: 07A10591 | 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 Two fixed points are 120 mm apart. A point P moves in such way that sum of its distance from two fixed points is always constant and equal to 160 mm. Trace the path of the point and the name the curve. [16]

2 A circle of diameter 30 mm rolls on a flat surface without slipping. Trace the path of a point lying on is circumference for one and a half revolution of the circle. Draw a normal and tangent to the curve at a point 20 mm above the directing line.[16]

3 A line PQ 100mm long is inclined at 30^0 to the HP and at 45^0 to the VP.Its mid point is in the VP and 20mm above the HP. Draw its projections, if its end P is in the third quadrant and Q in the first quadrant. [16]

4 A regular pentagon lamina of 30 mm side, surface is inclined at 30^0 to VP and side on which it rests on V.P makes an angle of 45^0 to H.P. Draw its projections. [16]

5 A square prism base 40 mm side and height 65 mm has its axis inclined at 45 degree to the HP and has an edge of its base on the HP and inclined at 30 degrees to the V.P. Draw its projections. [16]

6 A hexagonal pyramid base 25 mm side and axis 55 mm long has one of its slant edges on the ground. A plane containing that edge and the axis is perpendicular to the H.P and inclined at 45^0 to the V.P. Draw its projections when the apex is nearer the V.P than the base. [16]

7 Draw the isometric view of the object whose orthographic projections as shown in figure 1 below. All dimensions are in mm. [16]

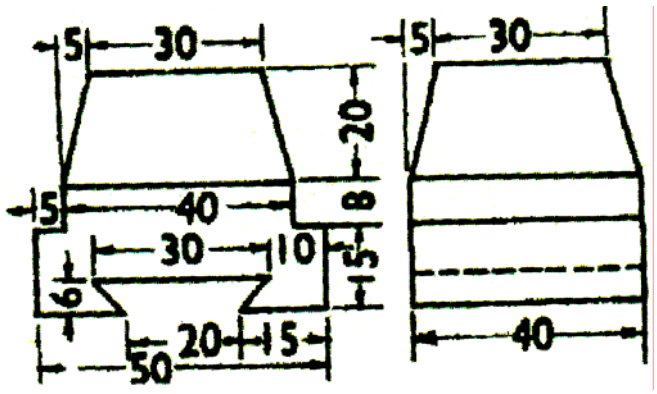


Fig: 1

8. Draw the following views of the object given in figure 2 below. All dimensions are in mm.
   a) Front view b) Top view and c) Right side view. [16]

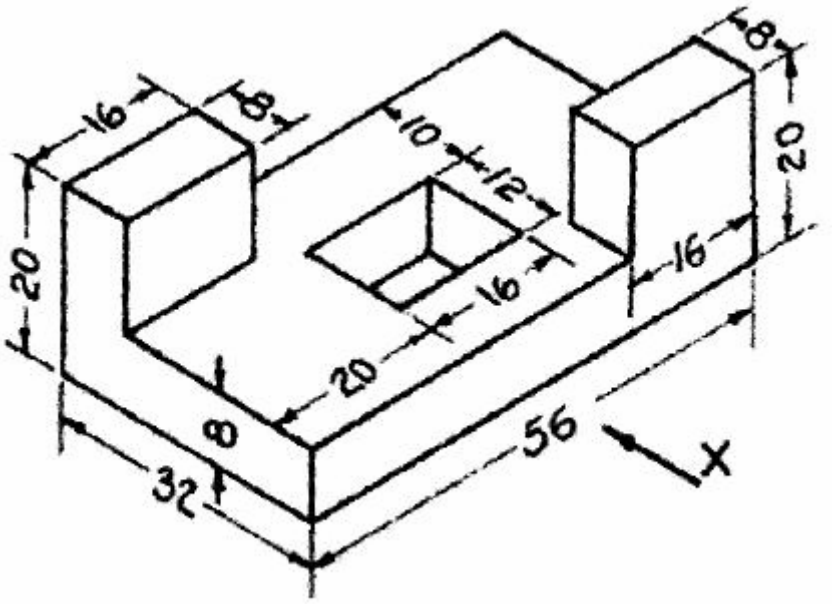


Fig:2

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Code.No: 07A10591 | 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 line PQ 100mm long is inclined at 30^0 to the HP and at 45^0 to the VP.Its mid point is in the VP and 20mm above the HP. Draw its projections, if its end P is in the third quadrant and Q in the first quadrant. [16]

2 A regular pentagon lamina of 30 mm side, surface is inclined at 30^0 to VP and side on which it rests on V.P makes an angle of 45^0 to H.P. Draw its projections. [16]

3 A square prism base 40 mm side and height 65 mm has its axis inclined at 45 degree to the HP and has an edge of its base on the HP and inclined at 30 degrees to the V.P. Draw its projections. [16]

4 A hexagonal pyramid base 25 mm side and axis 55 mm long has one of its slant edges on the ground. A plane containing that edge and the axis is perpendicular to the H.P and inclined at 45^0 to the V.P. Draw its projections when the apex is nearer the V.P than the base. [16]

5 Draw the isometric view of the object whose orthographic projections as shown in figure 1 below. All dimensions are in mm. [16]

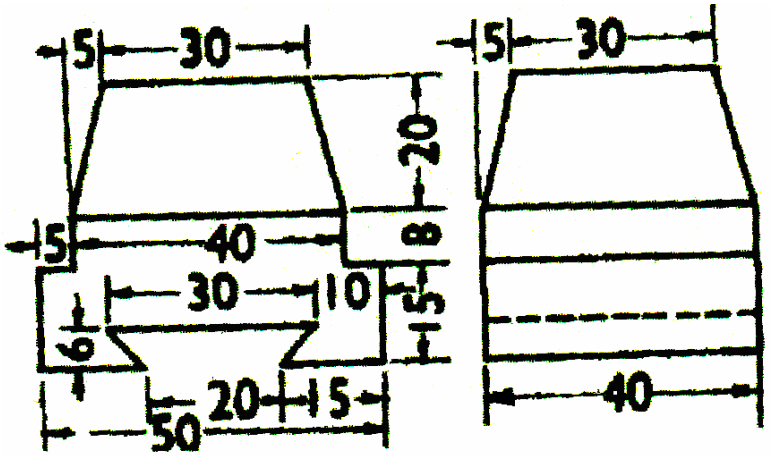


Fig: 1

6. Draw the following views of the object given in figure 2 below. All dimensions are in mm.
   a) Front view b) Top view and c) Right side view. [16]

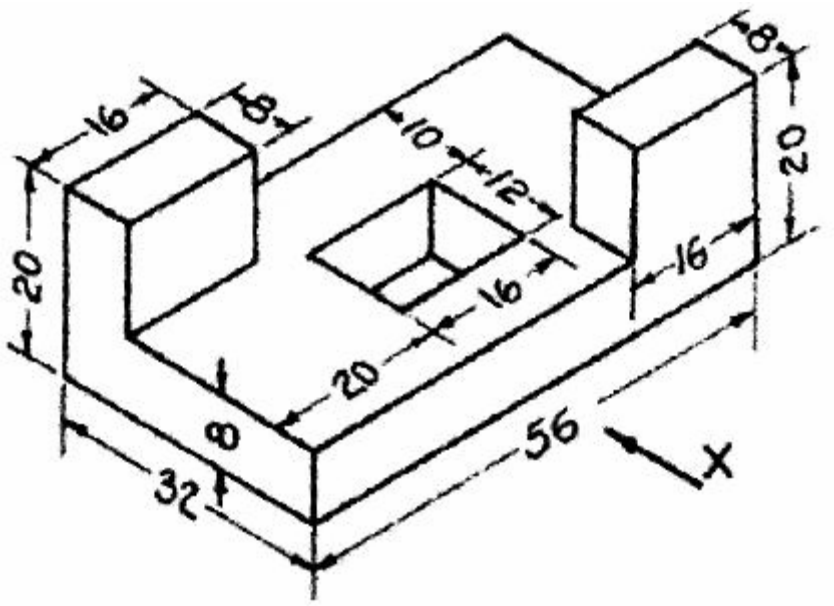


Fig:2

7 Two fixed points are 120 mm apart. A point P moves in such way that sum of its distance from two fixed points is always constant and equal to 160 mm. Trace the path of the point and the name the curve. [16]

8 A circle of diameter 30 mm rolls on a flat surface without slipping. Trace the path of a point lying on is circumference for one and a half revolution of the circle. Draw a normal and tangent to the curve at a point 20 mm above the directing line.[16]

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Code.No: 07A10591 | 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 A square prism base 40 mm side and height 65 mm has its axis inclined at 45 degree to the HP and has an edge of its base on the HP and inclined at 30 degrees to the V.P. Draw its projections. [16]

2 A hexagonal pyramid base 25 mm side and axis 55 mm long has one of its slant edges on the ground. A plane containing that edge and the axis is perpendicular to the H.P and inclined at 45^0 to the V.P. Draw its projections when the apex is nearer the V.P than the base. [16]

3 Draw the isometric view of the object whose orthographic projections as shown in figure 1 below. All dimensions are in mm. [16]

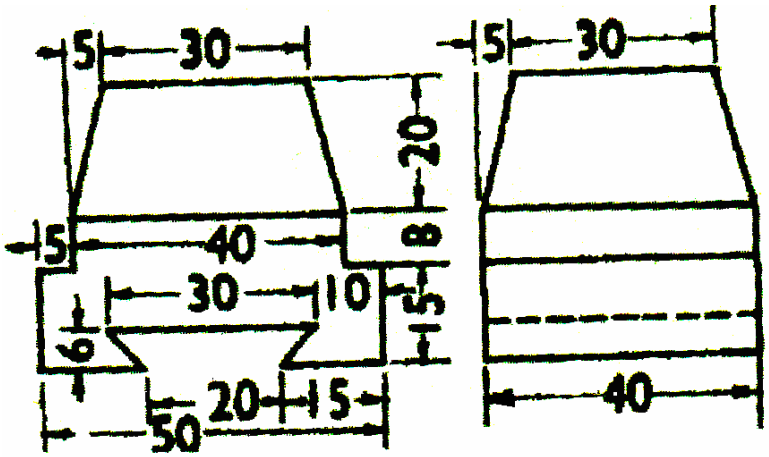


Fig: 1

4. Draw the following views of the object given in figure 2 below. All dimensions are in mm.
   a) Front view b) Top view and c) Right side view. [16]

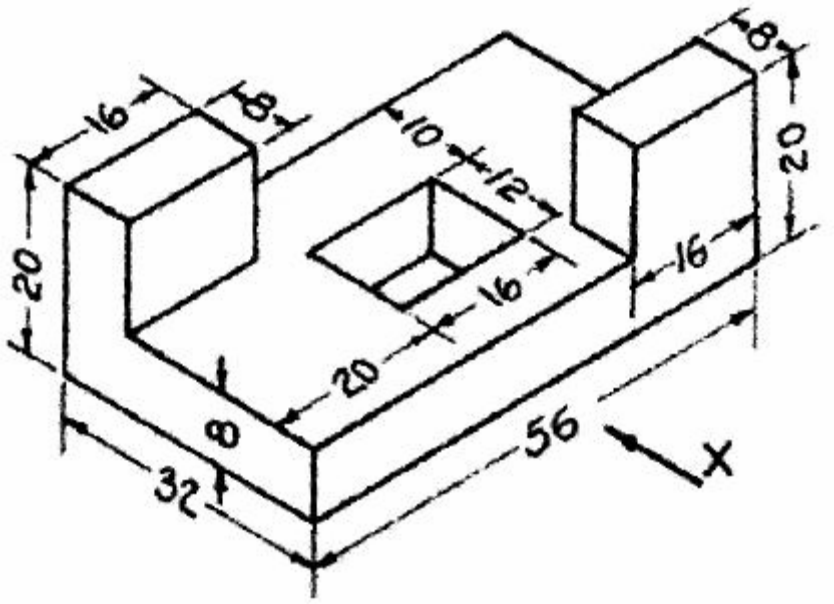


Fig:2

5 Two fixed points are 120 mm apart. A point P moves in such way that sum of its distance from two fixed points is always constant and equal to 160 mm. Trace the path of the point and the name the curve. [16]

6 A circle of diameter 30 mm rolls on a flat surface without slipping. Trace the path of a point lying on is circumference for one and a half revolution of the circle. Draw a normal and tangent to the curve at a point 20 mm above the directing line.[16]

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8 A regular pentagon lamina of 30 mm side, surface is inclined at 30^0 to VP and side on which it rests on V.P makes an angle of 45^0 to H.P. Draw its projections. [16]

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Code.No: 07A10591 | 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 isometric view of the object whose orthographic projections as shown in figure 1 below. All dimensions are in mm. [16]

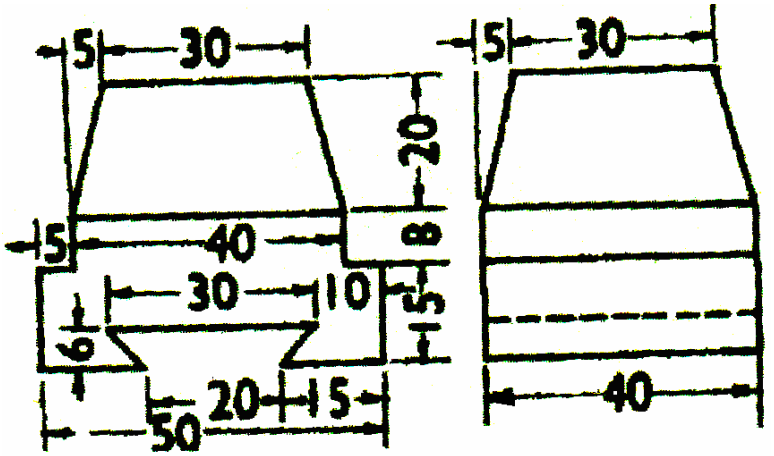


Fig: 1

2. Draw the following views of the object given in figure 2 below. All dimensions are in mm.
   a) Front view b) Top view and c) Right side view. [16]

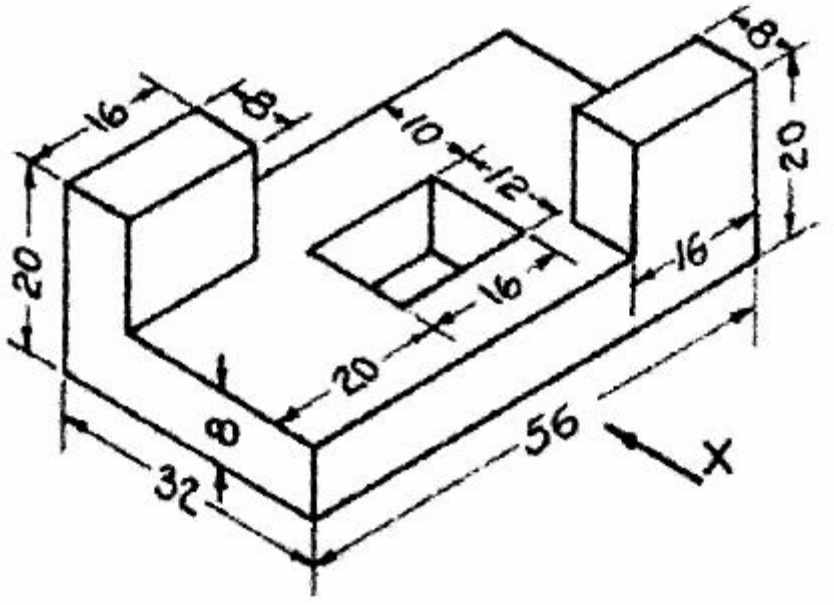


Fig:2

3 Two fixed points are 120 mm apart. A point P moves in such way that sum of its distance from two fixed points is always constant and equal to 160 mm. Trace the path of the point and the name the curve. [16]

4 A circle of diameter 30 mm rolls on a flat surface without slipping. Trace the path of a point lying on is circumference for one and a half revolution of the circle. Draw a normal and tangent to the curve at a point 20 mm above the directing line.

5 A line PQ 100mm long is inclined at 30^0 to the HP and at 45^0 to the VP.Its mid point is in the VP and 20mm above the HP. Draw its projections, if its end P is in the third quadrant and Q in the first quadrant. [16]

6 A regular pentagon lamina of 30 mm side, surface is inclined at 30^0 to VP and side on which it rests on V.P makes an angle of 45^0 to H.P. Draw its projections. [16]

7 A square prism base 40 mm side and height 65 mm has its axis inclined at 45 degree to the HP and has an edge of its base on the HP and inclined at 30 degrees to the V.P. Draw its projections. [16]

8 A hexagonal pyramid base 25 mm side and axis 55 mm long has one of its slant edges on the ground. A plane containing that edge and the axis is perpendicular to the H.P and inclined at 45^0 to the V.P. Draw its projections when the apex is nearer the V.P than the base. [16]

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