

Hall Ticket Number:

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I/IV B.Tech (Supplementary) DEGREE EXAMINATION

December, 2019

First/Second Semester

Time: Three Hours

Common to all Branches

Engineering Graphics

Maximum: 60 Marks

Answer ONE question from each unit.

(5X12 = 60 Marks)

UNIT I

1. Construct ellipse with major axis 100mm and minor axis 70mm by using concentric circles method. 12M

(OR)

2. A circle of diameter 50 mm rolls over a straight line. Trace a point on the circumference of the circle for one complete revolution. Also, draw a tangent and normal to the curve at a point 35 mm above the base line. 12M

UNIT II

3. A 80mm long line AB has its end point A is 30mm above HP. and 40mm in front of VP. The other end point B is 60mm above HP. and 10mm in front of VP. Draw the projections of AB and determine its inclinations with reference planes. 12M

(OR)

4. An 80mm long line AB has its end point A on the HP. and 15mm in front of the VP. The line is inclined at 30° to the HP. and its top view is inclined at 60° to the reference line. Draw the projections of the line AB and determine true angle of inclination with the VP. 12M

UNIT III

5. A Semi Circular Lamina of diameter 55mm has its straight edge on the HP. and inclined at 45° to VP. Draw the projection of plane when its surface is inclined at 30° to the HP. 12M

(OR)

6. A Pentagon PQRST of side 25mm has its side PQ in the HP. and inclined at 30° to the VP. And the corner Q is 15mm in front of VP. And the corner S is 25mm above the HP. Draw the projection of the plane and find its inclination with the VP. 12M

UNIT IV

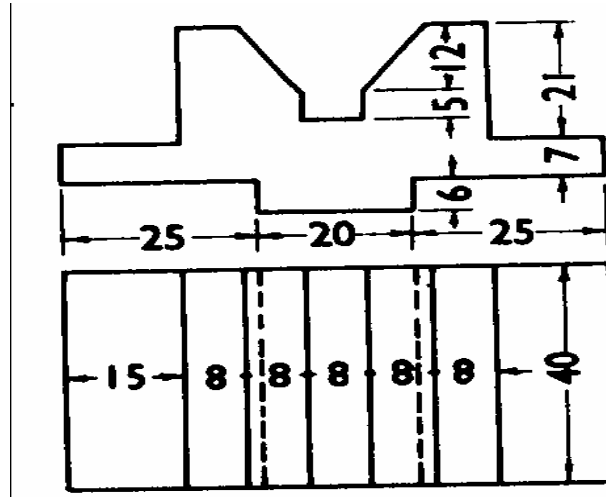
7. A Hexagonal prism of base edge 30mm axis 65mm rest on one of its base edges on the HP. such that the axis is inclined at 45° to HP and 30° to VP. Draw its projections. 12M

(OR)

8. Draw the projections of a cone base diameter 45mm and axis 65mm resting on a point of the base circle on the ground with axis inclined at 45° to HP. and 60° to the VP. 12M

UNIT V

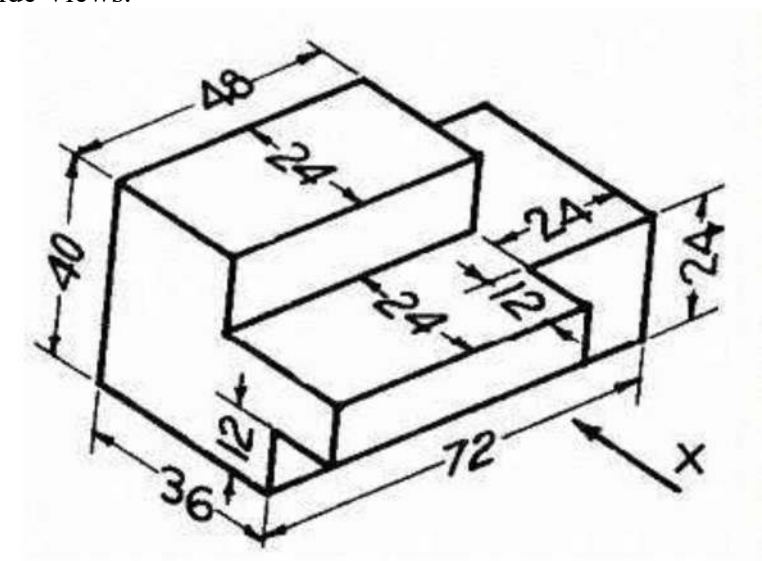
9. Draw the isometric view of the object whose orthographic projections are shown in fig (a). All dimensions are in mm.



12M

(OR)

- 10 Draw the following views of the object given in fig (b). All dimensions are in mm.
(a) Front View
(b) Top View and
(c) Both Side Views.



12M



BT/CE/CHE/EE/EI 116
CS/IT/EC/ME 126

Hall Ticket Number:

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I/IV B.Tech (Supplementary) DEGREE EXAMINATION

May, 2018

First/Second Semester

Time: Three Hours

All questions carry **EQUAL** marks

Common to all branches

ENGINEERING GRAPHICS

Maximum: 60 Marks

(5X12 = 60 Marks)

Answer ONE question from each unit.

UNIT I

1. A ball is thrown from the ground level which reaches a height of 16 m and a horizontal distance of 28 m before coming to the ground. Trace the path of the ball and determine direction of the ball when it was at a height of 10 m from the ground.

(OR)

2. A circle of diameter 50 mm rolls over a straight line. Trace a point on the circumference of the circle for one complete revolution. Also, draw a tangent and normal to the curve at a point 35 mm above the base line.

UNIT II

3. A 80mm long line AB has its end point A is 30mm above HP. and 40mm in front of VP. The other end point B is 60mm above HP. and 10mm in front of VP. Draw the projections of AB and determine its inclinations with reference planes.

(OR)

4. An 80mm long line AB has its end point A on the HP. and 15mm in front of the VP. The line is inclined at 30^0 to the HP. and its top view is inclined at 60^0 to the reference line. Draw the projections of the line AB and determine true angle of inclination with the VP.

UNIT III

5. A Semi Circular Lamina of diameter 55mm has its straight edge on the HP. and inclined at 45^0 to VP. Draw the projection of plane when its surface is inclined at 30^0 to the HP.

(OR)

6. A Pentagon PQRST of side 25mm has its side PQ in the HP. and inclined at 30^0 to the VP. And the corner Q is 15mm in front of VP. And the corner S is 25mm above the HP. Draw the projection of the plane and find its inclination with the VP.

UNIT IV

7. A Hexagonal prism of base edge 30mm axis 65mm rest on one of its base edges on the HP. such that the axis is inclined at 45^0 to HP and 30^0 to VP. Draw its projections.

(OR)

8. Draw the projections of a cone base diameter 45mm and axis 65mm resting on a point of the base circle on the ground with axis inclined at 45° to HP. and 60° to the VP.

BT/CE/CHE/EE/EI 116
CS/IT/EC/ME 126

UNIT V

9. Draw the isometric view of the object whose orthographic projections are shown in fig (a).
All dimensions are in mm.

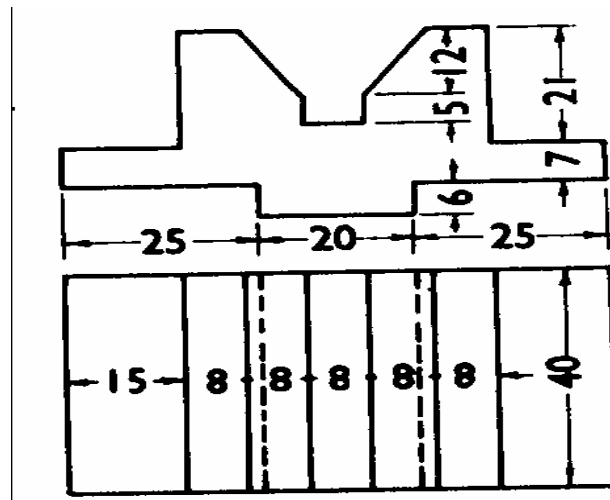


fig (a)

(OR)

10. Draw the following views of the object given in fig (b). All dimensions are in mm.
(a) Front View
(b) Top View and
(c) Both Side Views.

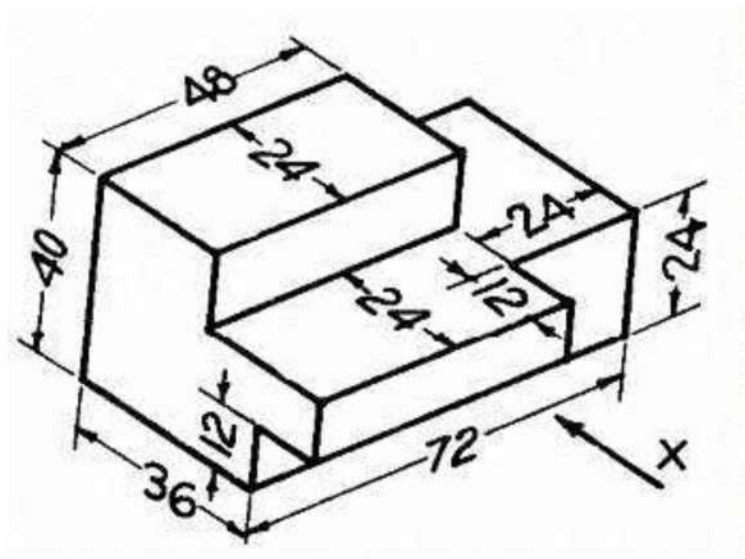


fig (b)