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Question Paper Code : 57410

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2016

First Semester

Civil Engineering

GE 6152 – ENGINEERING GRAPHICS

(Common to all Branches)

(Regulations 2013)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

(5 × 20 = 100 Marks)

1. (a) Draw an ellipse when the eccentricity is $\frac{2}{3}$ and the distance of the focus from the directrix is equal to 50 mm. Also draw a normal and tangent to a point on the ellipse which is at a distance of 70 mm from the directrix.

OR

- (b) Draw the following views of the component shown in Fig. 1 by free hand sketching :

- (i) Front view
- (ii) Top view and
- (iii) Right side view

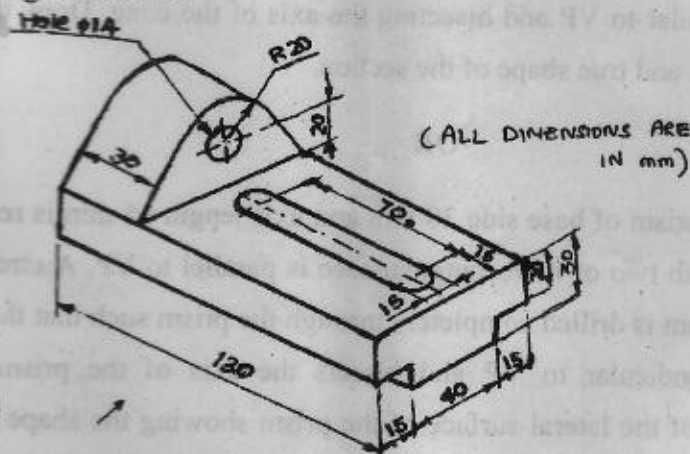


Fig. 1

1

16-06



5. (a)

A cylinder of 50 mm diameter and 60 mm height stands on HP. A section plane perpendicular to VP inclined at 55° to HP cuts the cylinder and passing through a point on the axis at a height of 45 mm above the base. Draw the isometric projection of the truncated portion of the cylinder such that the cut surface is clearly visible to the observer.

OR

- (b) A square pyramid, side of base 40 mm and height 60 mm rests with its base on the ground such that one of its base side is parallel to and 15 mm behind the picture plane. The station point is 90 mm in front of PP, 80 mm above the ground plane and lies in a central plane 40 mm to the right of the centre of the pyramid. Draw the perspective projection of the square pyramid.

