1. Figure 1 shows a pictorial drawing of a block. Draw full size the following views in third angle projection:

   (a)   plan in the direction of arrow P;

   (b)   front elevation in the direction of arrow F;

   (c)   end elevation in the direction of arrow E.
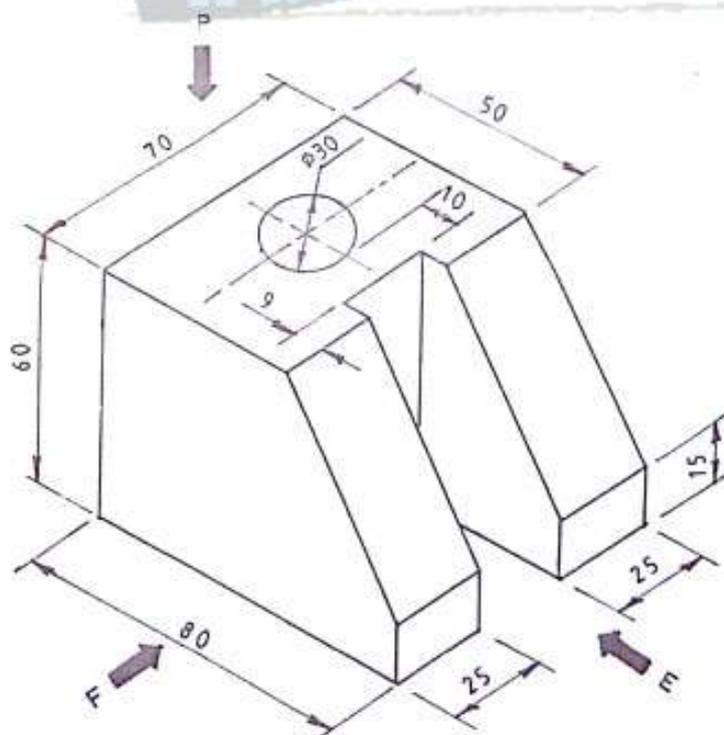
   Indicate **six** major dimensions.

(20 m

Fig. 1

(b)   Figure 3 shows two views of an object. Draw an oblique cabinet pictorial view of the object taking corner X as the lowest point.
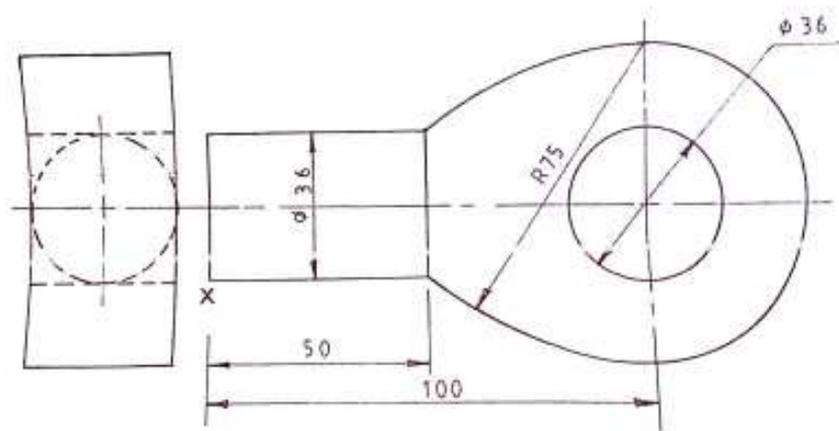
(10 mar[

ø 36

R75

ø 36

X

50

100

Fig. 3

4. Figure 4 shows the elevation of a truncated regular hexagonal pyramid. Redraw full size, the given views and complete the:

(a) plan;

(b) end elevation in the direction of arrow E;

(c) true shape;

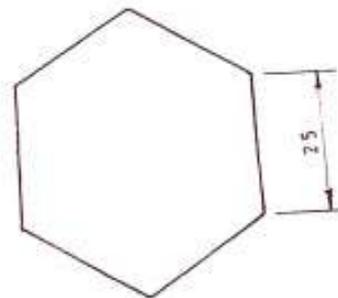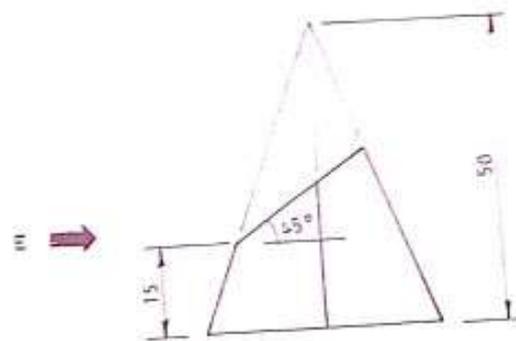(d) surface development.   (20 marks)

Fig. 4

5. Figure 5 shows a pictorial drawing of a block unit. Draw full size in third angle projection the following views:

(a) plan;

(b) sectional front elevation through X-X;

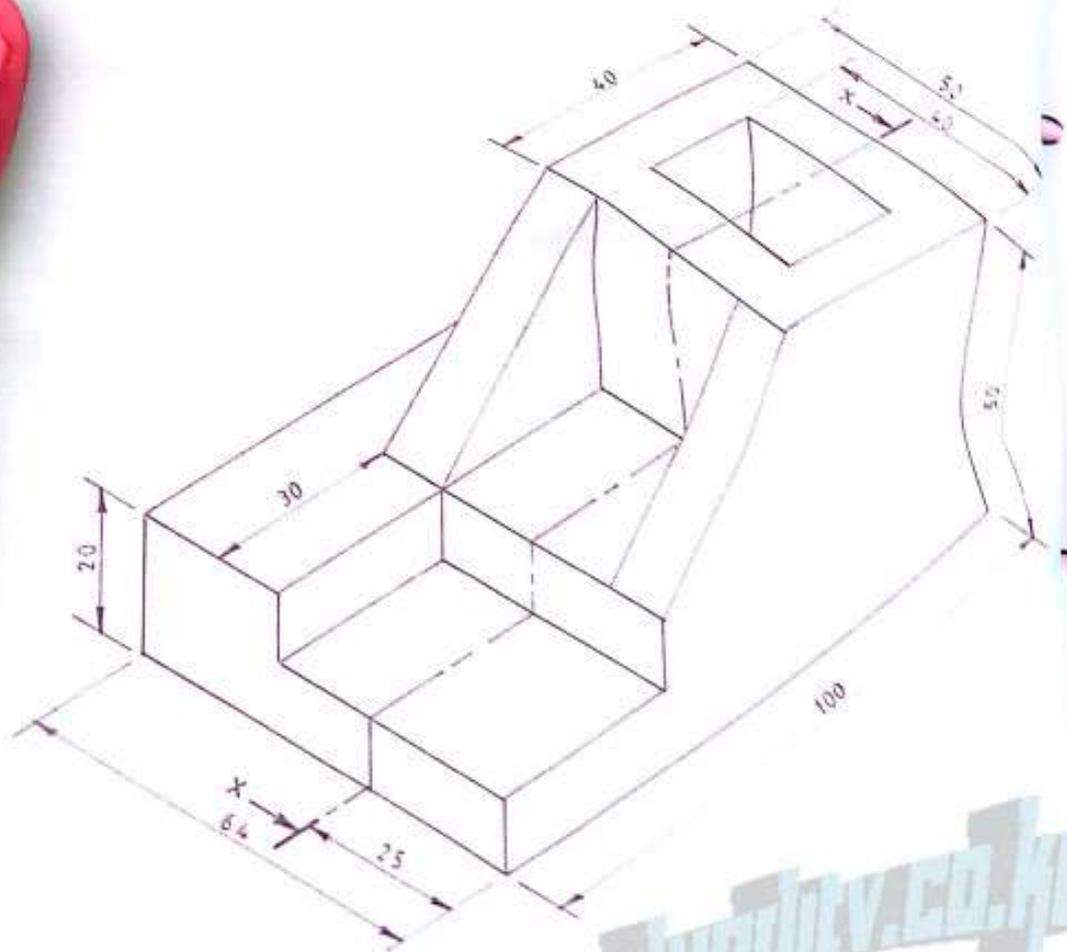(c) end elevation.

Insert any **six** major dimension.

(20 marks)

Fig. 5

6. (a) Draw an ellipse using concentric circles method given major and minor axis as 140 mm and 100 mm respectively.

(12 marks)

(b) Construct a triangle whose sides have ratios 1:2:3:4 if its perimeter is 140 mm.

(3 marks)

(c) Construct the following angles:

(i) 22½°;

(ii) 75°.

(5 marks)