## DIPLOMA IN AERONAUTICAL ENGINEERING

 (AIRFRAME \$ ENGINES AND
## AVIONICS)

TERM II
MODULE 1

ENGINEERING DRAWING
3HRS

## INSTRUCTIONS TO CANDIDATE

Answer all questions given

Marks for each part of a question are as indicated

All dimensions are in millimeters

1. Figure 1 shows intersecting cylinders of diameters 40 mm and 30 mm .

Draw:
(I) the complete plan;
(ii) The front elevation showing lines of intersection;
(iii) Development of cylinder diameter 40 mm .
(15 marks)
2. Figure 2 shows the frustum of a right cone. Draw the given view and add the following:
(i true shape along $x-x$.
(ii) Development of the cone
(iii) Complete plan

3a. Figure 3, shows two views of a machined casting .Draw the bracket in isometric projection with corner X as the lowest point
b. Construct a regular pentagon within a circle of radius 40 mm with all corners touching the circle.
(5 marks)
4. Figure 4 shows a pictorial detail of a machined bracket. Draw to full scale, the following views in FIRST ANGLE orthographic projection with all hidden details:
(i) A front elevation obtained by viewing the bracket in the direction of arrow F. (8marks)
(ii) A plan view projected from the front elevation
(iii) $A$ suitable end view in the direction of arrow $E$

