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 40mm and 30mm. Draw:		
	(1)	the complete plan;	
	(ii)	The front elevation showing lines of intersection;	
	(iii)	Development of cylinder diameter 40mm.	(15 marks)
2.	Figure 2 shows the frustum of a right cone. Draw the given view and add the following:		
	(i (ii)	true shape along x-x. Development of the cone	
	(iii)	Complete plan	(15 marks)
3a.	Figure 3, shows two views of a machined casting .Draw the bracket in isometric projection with corner X as the lowest point (15 marks)		
b.	Construct a regular pentagon within a circle of radius 40mm 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	(6marks)
(iii)	A suita	able end view in the direction of arrow E	(6marks)