

University Examinations for 2016/2017

SCHOOL OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF ELECTRICAL & ELECTRONIC ENGINEERING FIRST YEAR EXAMINATION FOR CERTIFICATE IN ELECTRICAL ENGINEERING

EPC112: TECHNICAL DRAWING II

Date: 6/6/2017 Time: 2:00 – 4:00 PM

INSTRUCTIONS

Answer Question **ONE** and any other **TWO**

- a) Engineering drawing is a means of communication used by all personnel concerned with the design and production of engineering items. Justify the foregone statement. (5 marks)
 - b) a) Figure 1 below shows an isometric view of a shaped block. Copy the figure and dimension it fully. (15 marks)

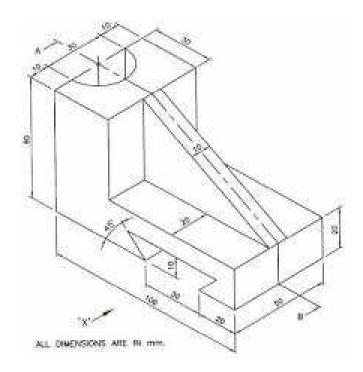


Figure 1

b) Draw the following figure in isometric projection taking corner Y to be the lowest point (10 marks)

2. a) Figure 2 shows the right cone cut obliquely and vertically. Copy the view and

		ii)	Draw the surface development of the cone	(12 marks)
	• `	G1		
	b)		h the following electronic symbols:	
		i)	Fuse	
		ii)	Transformer	
		iii) iv)	Loud speaker Earth terminal	(8 marks)
		11)	Latti Cililla	(o marks)
3.	a)	Construct a triangle ABC given the perimeter is 145mm and the sides are in the		
	,		ratio 2:3:6. Measure the angle, BAC (6 marks)	
	b)	Const	truct a regular polygon, given the diameter of the escribed circle	is 70mm (6 marks)
	c)	a)	A and B are two points 100mm apart. With B as center, draw	
			75 mm in diameter. From A draw two lines AC and AD which tengential to the circle. AC = 150mm, From C construct enother	
			tangential to the circle. AC = 150mm. From C construct anoth the circle to form a triangle ACD. Measure and state the length	_
			AD and the angle CDA	(8 marks)
4.	a)	Figur	e 3 shows an outline of two pulley wheels connected by a taught	t belt.
		Draw	the figure FULL SIZE showing clearly the construction for obtaining	aining the

Complete the plan

i)

b)

5

points of contact of the belt and the pulleys.

projection taking side CD to be the lowest side

Figure 4 shows three views of a shaped block. Draw the block in oblique

Figure 4 shows a pictorial view of a machine block. Draw the block in first angle

orthographic projection and dimension it fully – ignore all the small holes.

(12 marks)

(8 marks)

(20 marks)

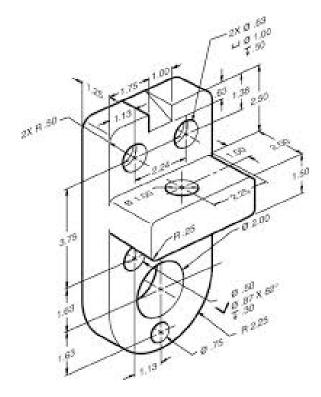


Figure 1