

University Examination 2018/2019

SCHOOL OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING FIRST YEAR SECOND SEMESTER EXAMINATION FOR CERTIFICATE IN ELECTRICAL AND ELECTRONIC ENGINEERING 1601/104 – TECHNICAL DRAWING

DATE: 18/4/2019

TIME: 8.30-11.30 AM

INSTRUCTIONS:

Answer Question One and Any Other Two Question

QUESTION ONE (30 MARKS)

a)	Draw	an	internal	tangent	to	two	circles	of	diameters	60	mm	and	40	mm	
	with centres spaced at 110mm											(10 marks)			
b)	draw the isometric projection of a circular plane of diameter 60mm											(10 marks)			
c)	Draw an isometric box of 50mm sides											(10 marks)			
QUESTION TWO (20 MARKS)															
a)	state any three types of sectioning									(3 marks)					
b)	define the following term														
	i.	Cut	ting plan	e											
	ii.	Sec	tioning									((4 ma	arks)	
c)	using free hand sketch the following hand tools														

- i. ball pein hammer
- ii. tin snips
- iii. cold chisel
- iv. flat screw driver
- v. spirit level (10 marks)

- d) Draw the following electronics symbols as per BS 3939
 - i. Variable resistor
 - ii. NPN transistor
 - iii. Loud speaker

QUESTION THREE (20 MARKS)

Figure 1 shows a pictorial view of a block. Draw full size the following views in first 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

Insert any six major dimensions

QUESTION FOUR (20 MARKS)

Figure 2 shows an orthographic view draw its isometric view

QUESTION FIVE (20 MARKS)

Figure 3 shows a pictorial view of a block. Draw full size the following views in third angle projection:

- a) Plan in direction of arrow P
- b) Font elevation in the direction of arrow F
- c) End elevation in direction of arrow E

Insert any Six major dimensions

(3 marks)