

TECHNICAL UNIVERSITY OF MOMBASA Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

CERTIFICATE IN BUILDING & CIVIL ENGINEERING (CBCE)

EBC 1102: ENGINEERING DRAWING II

END OF SEMESTER EXAMINATION SERIES: DECEMBER 2013 TIME ALLOWED: 2 HOURS

Instructions to Candidates: You should have the following for this examination - Answer Booklet

- Drawing Instruments
- Drawing paper size A3

This paper consists of **FIVE** questions. Answer any **THREE** questions

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Maximum marks for each part of a question are as shown This paper consists of **TWO** printed pages

Question One

a)	Draw perpendicular line at the end of a straight line AB 100mm long	(2 marks)
b)	Inscribe a circle within a triangle of sides 60mm, 80mm and 50mm	(3 marks)
c)	Circumscribe a circle to a given triangle of sides 70mm, 60mm and 100mm	(3 marks)
d)	Illustrate the following types of drawing lines(i)Construction lines(ii)Hidden detail lines(iii)Centre line(iv)Out line	(1 mark) (1 mark) (1 mark) (1 mark)
e)	Draw line AB 100mm and divide it into 7 equal parts	(5 marks)
f)	Construct an equilateral triangle within a circle of diameter 60mm	(3 marks)
Question Two		
Figure 1 shows a mild steel bracket. Draw full size in 1 st angle projection.		
a) b) c)	Front elevation in the direction of arrow A End elevation in the direction of arrow B Plan in the direction of arrow P	(20 marks)
Qu	iestion Three	
Figure 2 shows THREE views of a block in 3rd angle projection. Using the dimensions given, draw fullsize the isometric view of the block. Do not dimension the drawing.(20 marks)		
Qu	lestion Four	
Draw free hand pictorial sketches of any four of the following items:		
	 (i) Combination pliers (ii) Ball pain hammer (iii) Clay hammer (iv) Mallet (v) Anvil (vi) Spirit level 	(20 marks)
Qu	lestion Five	
a)	Draw a cone of height 80mm and base radius 30mm	(10 marks)
b)	Complete the plan and surface development of the cone	(10 marks)