

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

CERTIFICATE IN BUILDING & CIVIL ENGINEERING (CBECE 14S)

EBC 1108: ENGINEERING DRAWING (BUILDING)

END OF SEMESTER EXAMINATION SERIES: APRIL 2015 TIME ALLOWED: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Answer Booklet

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

Maximum marks for each part of a question are as shown Use neat, large and well labeled diagrams where required This paper consists of **FOUR** printed pages

Question One

- a) Write the following abbreviations in full:
 - (i) D.P.M
 - (ii) G.L
 - (iii) W/C
 - (iv)DPC
 - (v) D.R.G

(5 marks)

- b) Draw a section of a strip foundation and show the following details:
 - (i) Hardcore
 - (ii) Ground earth
 - (iii) Foundation concrete
 - (iv)Foundation walling
 - (v) Dump proof membrane
 - (vi)Damp roof course
 - (vii) Floor finish

(10 marks)

c) Sketch the following tools:

(5 marks)

- (i) Trowel
- (ii) Mallet
- (iii) Straight edge
- (iv)Hand saw
- (v) Craw hammer

Question Two

A vertical cylinder is interpenetrated by a cylinder inclined at an angle of 30° to the horizontal. Draw the curves of intersection (20 marks)

Question Three

The figure below shows the front elevation of a regular hexagonal pyramid of side 35m	m which has been
cut by planes X-X. Draw the following:	

(i)	Elevation	in the	direction	of	arrow	E
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(ii) The	auxiliary	wiew of	arrow R

(20 marks)

Question Four

The following sketch has been provided by Mr Otieno for production of a working drawing. Draw the floor plan using a scale of 1:50 showing elevations A and B (20 marks)

Question Five

The figure below shows the frustum of a cone. Draw the following views:

- (i) Plan
- (ii) Auxiliary view of the shape direction 2
- (iii) Development of the figure **marks)**

(20