



TECHICAL UNIVERSITY OF MOMBASA
**Faculty of Engineering &
Technology**

DEPARTMENT OF BUILDING & CIVIL ENGINEERING
CERTIFICATE IN BUILDING TECHNOLOGY (CT I 12J)

EBC 1132: ENGINEERING DRAWING II

SPECIAL/SUPPLEMENTARY EXAMINATION
SERIES: FEBRUARY 2013
TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*
- *Drawing set*
- *Drawing paper size A2*

This paper consists of **FIVE** questions.

Answer any **THREE** questions

Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

Question One

Figure 1 shows an elevation of a framed braced and battened door. To a scale of 1:10 draw front elevation, sections AA and BB. Dimension all the sizes. **(20 marks)**

Question Two

Figure 2 shows a plan and sectional elevation of a bus stop shelter. To a scale of 1:10 draw the details "X". Dimension and name all the parts. **(20 marks)**

Question Three

- a) (i) Sub-divide a line 150mm long into proportions of 2:4:6.
(ii) Construct an octagon circumscribing. **(4 marks)**
- b) Construct an octagon circumscribing a circle of 80mm. **(6 marks)**
- c) Construct a plain scale in which 25mm = 1m, with a maximum reading of 4.0m and a minimum reading of 2.5m. On the scale, indicate the following readings:
(i) 1.65m
(ii) 3.05m **(10 marks)**

Question Four

Show by sketches, conventional indication of the following:

- (i) Concrete
(ii) Stone
(iii) Plaster
(iv) Hardcore
(v) Earth **(20 marks)**

Question Five

Use freehand sketches to show the following tools:

- a) Wooden hawk
b) Wooden float
c) Steel float
d) Bat and closer gauge **(20 marks)**