



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

DEPARTMENT OF BUILDING & CIVIL ENGINEERING  
**CERTIFICATE IN BUILDING & CIVIL ENGINEERING (CBCE)**

EBC 1206: ENGINEERING DRAWING II

**END OF SEMESTER EXAMINATION**

**SERIES: DECEMBER 2014**  
**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

All questions carry equal marks

Maximum marks for each part of a question are as shown

Use neat, large and well labeled diagrams where required  
This paper consists of **TWO** printed pages

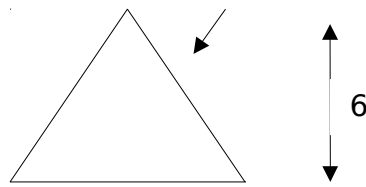
### Question One

A cylinder 50mm diameter and 70mm height is completely penetrated by another of 40mm diameter 70mm horizontally both axis intersect and bisect each other.

Draw the plan, front elevation and end elevation and clearly show the intersection. **(20 marks)**

### Question Two

The figure below shows an elevation of a cone of base diameter 50mm. Draw:



- (i) The plan view
- (ii) The development of the surface
- (iii) The end elevation indicated by the arrow. **(20 marks)**

### Question Three

Figure 1 shows an isometric view of a bracket. Sketch the figure and show all the dimension as indicated. **(20 marks)**

### Question Four

- a) Figure 2 shows a section of a road. Draw the above section of the road to a scale of 1:50. **(20 marks)**

### Question Five

- a) Write the following abbreviation in full used in building drawing:
  - (i) D.P.M
  - (ii) G.L
  - (iii) W.C
  - (iv) D.P.C **(4 marks)**
  
- b) Sketch the convection symbol for the following building materials in section:
  - (i) Hardcore filling
  - (ii) Ground earth
  - (iii) Concrete foundation
  - (iv) Planned timber
  - (v) Stone walling **(10 marks)**
  
- c) With a well labeled diagram, outline the details of a strip foundations. **(6 Marks)**

