



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

DEPARTMENT OF BUILDING & CIVIL ENGINEERING  
**DIPLOMA IN ARCHITECTURE  
(DA 12)**

EAR 2201: ARCHITECTURAL COMMUNICATION III

**SPECIAL/SUPPLEMENTARY EXAMINATION**

**SERIES: OCTOBER 2013**

**TIME ALLOWED: 2 HOURS**

**Instructions to Candidates:**

You should have the following for this examination

- *Answer Booklet*

This paper consists of **FIVE** questions.

Answer question **ONE** and any other **TWO** questions

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

### Question One (Compulsory)

Figure 1 shows a plan of part of a hipped roof designed with a slope of 30 degrees. Using a scale of 1:50 draw:

- (i) Elevation A, B and C **(12 marks)**
- (ii) The auxiliary views of the planes marked a and b **(8 marks)**

### Question Two

Figure 2 shows an object in oblique projection. Draw the following perspective views.

- a) A one-point perspective with the ground line below the horizon line **(5 marks)**
- b) A one-point perspective with the ground line above the horizon line **(5 marks)**
- c) A two-point perspective with the ground line below the horizon line **(5 marks)**
- d) A two-point perspective with the horizon line approximately 1.5metres above the ground line **(5 marks)**

### Question Three

Figure 3 shows a plan and elevation of truncated hexagonal prism with the dimensions given. Draw the:

- a) Elevation of the truncated hexagonal prism marked A **(10 marks)**
- b) True shape of the sloping face **(10 marks)**

### Question Four

Figure 4 is an elevation of a classroom block. Redraw the elevation using contrasting tonal values to define the layers of spatial depth for effective architectural communication. **(20 marks)**

### Question Five

Figure 5 is an object in oblique projection. Assuming a bearing of  $15^\circ$  and altitude of  $45^\circ$ , draw the following views:

- a) The object with its shaded area and shadow differentiated using the hatching techniques **(10 marks)**
- b) The object with its shaded area and shadow.
- c) The object with its shaded area and shadow differentiated using the cross-hatching technique. **(10 marks)**