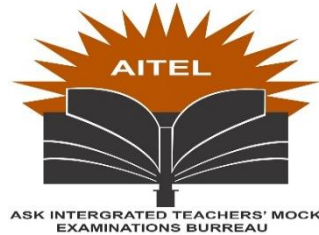


735/3  
GEOMETRICAL AND  
BUILDING DRAWING  
Paper 3  
2023  
3 HOURS



# AITEL JOINT MOCK EXAMINATION

*Uganda Certificate of Education*

GEOMETRICAL AND BUILDING DRAWING

Paper 3

3 HOURS

## INSTRUCTIONS TO CANDIDATES:

- *This question paper consists of two sections **I** and **II**.*
- *Attempt **ALL** questions in this question paper.*
- *A drawing paper **size A2** is provided, use both sides if necessary.*
- *Where dimensions are not given, use your discretion to determine missing dimensions.*
- *Figures in this paper are **not drawn to scale**.*
- *Interpret properly the specifications and figure provided before you attempt any question*

Figure 1 provided below shows a ground plan of A **GUEST HOUSE** not drawn to scale. The house is to be constructed using the following specifications:

**SPECIFICATIONS:**

**ROOF:** Hipped roof pitched at  $30^0$  pitch angle covered with corrugated, galvanized iron sheets, on wooden purlines of 75mm x 50mm, on struts of 100mm x 50mm on rafters of 100mm x 50mm, on Tie beam 150mm x 50mm, on wall plate of 100mm x 75mm finished with Fascia boards and verge boards of 200mm x 25mm.

**WALLS:** Both internal and external walls are 225mm thick and 3000mm high from the finished floor to the underside of the wall plate built in **ENGLISH BOND**,

**FOUNDATION:** Concrete strip foundation of 750mm wide and 250mm thick, 1200mm below the ground level.

**FLOOR:** Finished with cement sand screed 25mm thick on site concrete 100mm thick, on hard core of 150mm thick, on well compacted marrum.

**DOORS:** **D1** 1500mm x 2100mm is double leaf metal casement with glass panes

**D2** 1000mm x 2100mm is a framed ledged braced battened door.

**D3** 900mm x 2100mm is a framed ledged braced and battened door.

**WINDOWS:** All windows are Louvered and fitted in wooden frames

**W1** 2400 x 1500mm

**W2** 900 x 1200mm

**W3** 900 x 1000m

**SPLASH APRON** Concrete slab of 650 by 150mm

**SECTION I**

1. Using the Specifications given above, Draw a proportional free hand isometric sketch of the building with corner **R** as the fore point.  
(20 marks)

**SECTION II**

- 2 (a) To a scale of 1:100, Draw:
  - (i) the ground plan with all symbols indicated (20 marks)
  - (ii) the cross-section **S - S** (25 marks)
3. To a scale 1: 10 draw the back elevation of **D2** and name at least five parts  
(10 marks)
4. At the bottom right corner of your drawing paper, print in the block your:  
Name, Index number, Title of the drawing, subject code and Date.(5 marks)