

735/3
Building Drawing
Paper 3
July/August, 2015
3 Hours



UGANDA MUSLIM TEACHERS' ASSOCIATION
UMTA JOINT MOCK EXAMINATIONS - 2015
UGANDA CERTIFICATE OF EDUCATION

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Paper 3
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INSTRUCTIONS TO CANDIDATES:

- *This question paper consists of two Sections, I and II.*
- *Answer **all** the questions.*
- *A sheet of drawing paper, size **A2** is provided. Use both sides of the drawing paper.*
- *Where dimensions are **not** given, suitable dimensions are to be chosen.*
- *Accuracy and good draughtsmanship are essential.*
- *Print your name and examination number at the bottom right hand corner of your drawing paper.*

SECTION I

Draw a proportional free hand pictorial sketch of the building shown in figure 1 with corner S in the fore ground (use instruments will be penalized)

SECTION II

Figure 1 shows a residential building not drawn to scale

SPECIFICATIONS

- Roof: The ends are hipped and inclined at 30⁰.
 Corrugated iron sheets are nailed on
 75 x 50 mm purlins, nailed on
 100 x 50 mm rafters, nailed on
 100 x 50 mm struts and ties nailed on
 125 x 50 mm tie – beam, nailed on
 100 x 50 mm wall plate
 The fascia boards are 200 mm x 25 mm
 The eave is closed.
- WALLS: Height from finished floor to wall plate is 3000 mm.
 Both external and internal walls are
 225mm brick walls constructed
 In Flemish bond
- FLOORS: 25 mm thick cement and sand
 Screed, on 100 mm over site
 Concrete bed, on 150 mm of
 Hard core stones on well
 Compacted marrum

SPLASH APRON: 150 X 450 MM WIDE CONCRETE APRON

FOUNDATION: concrete strip foundation 675 x 225 mm at a depth of 800mm from ground level.

DOORS: D1- 1200 X 2100 mm casement metallic

D2 – 900 x 2100 mm four panelled door

D3 – 900 x 2100 mm flush doors

WINDOWS: W1 – 1800 X 1200 mm 3 bay louvers

W2 – 1200 x 1200 mm 2 bay louvers

Use the ground plan and the specifications to answer questions from 1 to 5

QUESTIONS

1. To a scale of 1:50, draw the plan of the building placing symbols for doors and windows in the right positions (16 marks)
2. To a scale of 1:50, draw the vertical section on the cutting plane x- x to show the constructional details including a closed eave (25 marks)
3. To a scale of 1:10 draw the isometric view of door 3, showing part of ply wood removed (15 marks)
4. At the bottom right hand corner of the answer sheet, draw a title block and print your name, index number, scale paper code and date . (4 marks)

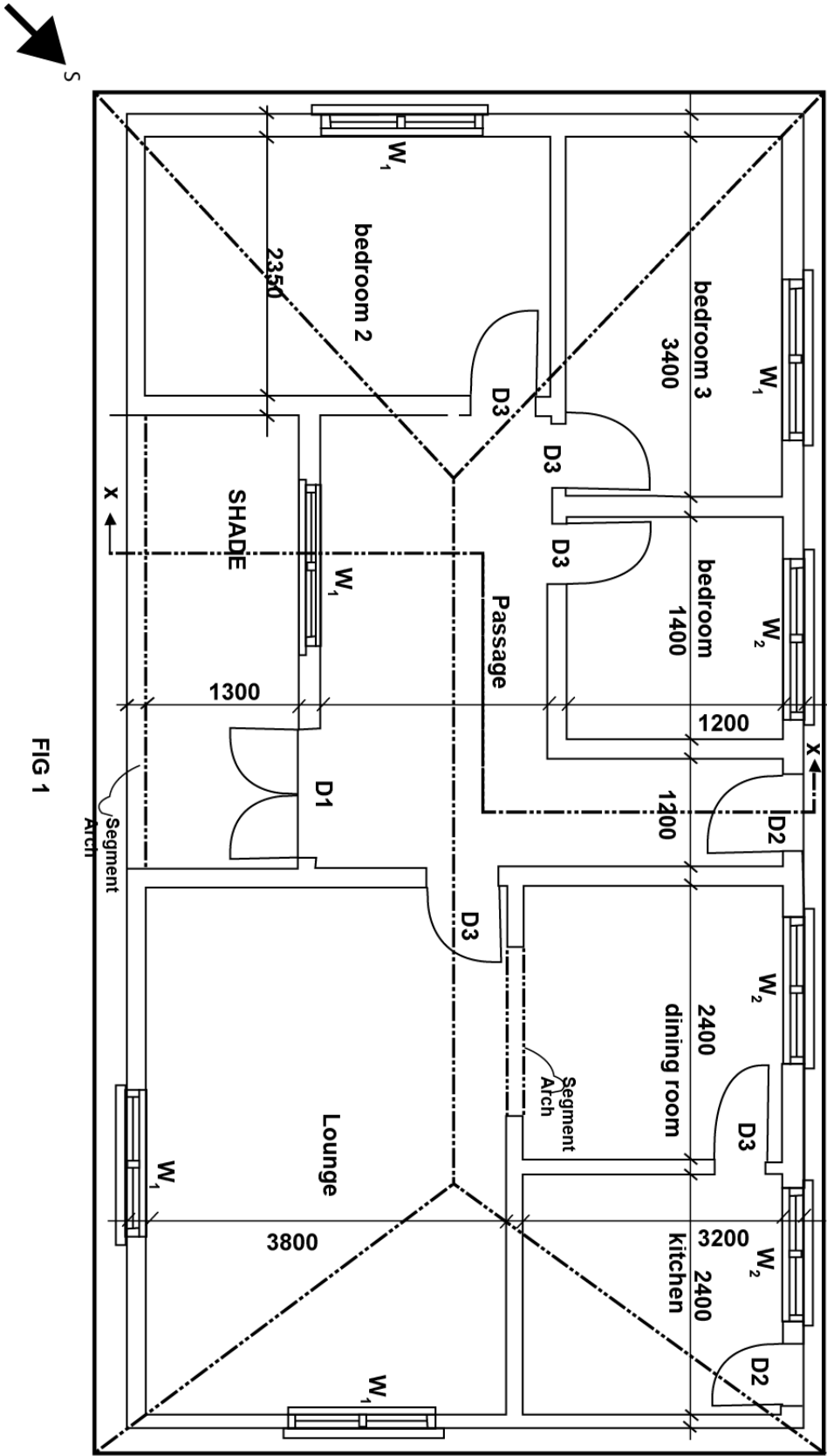


FIG 1