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P720/2
BUILDING DRAWING
PAPER 2
AUGUST 2016
3 HOURS

# RESOURCE MOCK EXAMINATIONS, 2016 UGANDA ADVANCED CERTIFICATE OF EDUCATION BUILDING DRAWING PAPER 2 3 HOURS

## **INSTRUCTIONS TO CANDIDATES**

- This question paper consists of **five** questions. Answer all questions.
- All dimensions are in millimeters unless otherwise stated.
- Where dimensions are not given, use your discretion to determine suitable dimensions.
- Neatness is a must.
- A sheet of drawing paper size A2 is provided, use both sides of paper if need be.



### **SPECIFICATIONS:**

**Walls:** All walls are 225mm thick, 3000mm high built in English bond.

**Roof:** Pitch  $30^{\circ}$ , covered with corrugated iron sheets on  $50 \times 75mm$  purlins on

 $100 \times 50mm$  rafters with  $100 \times 50mm$  struts on  $150 \times 50mm$ , tie beam on  $100 \times 50mm$  wall plate, with  $100 \times 50mm$  ceiling joints finished with

 $225 \times 25mm$  fascia/barge board.

**Foundation:**  $675 \times 225mm$  concrete strip foundation at a depth of 750mm below

ground level.

**Floor:** Finished with 50mm sand cement screed on 150mm concrete bed on

150mm thick hardcore.

**Windows:**  $W_1 - 1200mm \ high \times 1200mm \ wide$  metallic casement with P.V.O.

 $W_2$  –  $450mm\ high \times 1800mm\ wide$ , louvered metallic, with P.V.O.

 $W_3$  –  $1200mm\ high \times 1200mm\ wide$  metallic casement, with P.V.O.

 $W_4$  –  $600mm\ high \times 600mm\ wide\ metallic\ casement.$ 

**Doors:**  $D_1 - 2100mm \times 2100mm$  parallel double shutter.

 $D_{12}$  – 2100mm × 2400mm wide, battened, ledged, braced and framed.

 $D_3$  – 2100mm  $\times$  900mm five panelled door.

 $D_4$  – 2100mm × 900mm battened, ledged, braced and framed.

**Splash a prone:** Concrete slab  $150mm \times 600mm$ 

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- 1. The figure shows a line diagram of a proposed plan of a residential house. Using the specifications and the line diagram, draw in good proportion a free hand pictorial sketch of the building with corner *Y* in the foreground. (18mks)
- 2. To scale 1:100 draw:
  - (a) the ground plan showing all doors and windows in their right positions.

(17mks)

(b) draw the Front Elevation: Scale 1:50.

(10mks)

- 3. Draw a sectional end elevation through m-m to show all the details from foundation to ridge cup. Label the roof, floor and foundation members including the covering material. Scale 1:50. (22mks)
- 4. To scale 1:10 draw the back elevation of  $D_4$  and name its members. (08mks)
- 5. Set your paper, at the bottom right hand corner of your drawing paper, draw a title block, in it print your name, title of the drawing, scale, index number and date.

  (05mks)