

P720/2
Geometrical and Building drawing
Paper 2
July/August
3 Hours



UGANDA MUSLIM TEACHERS' ASSOCIATION

UMTA JOINT MOCK EXAMINATIONS 2015

UGANDA ADVANCED CERTIFICATE OF EDUCATION
Building Drawing
Paper Two
3 hours

INSTRUCTIONS:

- *Read specifications before attempting any question.*
- *Answer all questions.*
- *All dimensions are in millimeters unless otherwise stated.*
- *Where dimensions are not given, use your discretion to determine suitable ones.*
- *Neatness is a must.*
- *A sheet of drawing paper size A₂ is provided; use both sides of paper if necessary.*

SECTION I

1. The plan shown in figure 1, is of a residential house which is not drawn to scale. The walls are 3000mm high from floor level to wall plate. The roof is hipped at the bed room side and gabled at the garage side at 30° , covered with corrugated iron sheets.

Draw a free hand pictorial sketch of the house with corner x in the fore ground. (20marks)

SECTION II

- Walls; All internal and external walls are one brick thick, 3000mm high from floor level to wall plate. English bond.
- Roof; Hipped at bedroom side and gabled at the garage side at 30° covered with corrugated iron sheets, on purlins 75 x 50mm, on rafters 100 x 50 mm, with struts 100 x 50 mm. The fascia /verge boards 200 x 25 mm.
- Door; The garage door is 2100 x 1800mm, framed ledged, braced, battered doors. Living room external door, metal casement 2100 x 1200 opening both sides, Bed room doors, kitchen and living room paneled 2100 x 900mm, bath and toilet have flush door 2100 x 850mm. kitchen external door 2100 x 900 mm metallic casement.
- Windows; Living room frames are 1500 x 1200 to receive louvers, bed room 1200 x 1200 louvers in frames. Bath room windows 600mm x 900mm wide louver, toilet windows as for bathroom.
- Floor; Site concrete with 25mm, sand cement screed laid over 100mm thick floor concrete on 150mm thick hard care.
- Foundation; concrete strip foundation 230mm x 690 mm laid 750mm below ground level D.P.C 150mm above ground level.
- Apron 600mm x 150mm concrete

2. To a scale of 1:100 draw

- (a) (i) The plan of the house with standard symbol for door and windows in their correct positions. (15 marks)
- (ii) The rear elevation in the direction of arrow A, (12 marks)
- (iii) The sectional end elevation on cutting plane S-S (20 marks)
- (b) To a scale 1:20 draw back elevation of the garage door and label all members (10 marks)
- (c) At the bottom right hand corner of your paper, print your, name, index numbers, title of the drawing, date and scales used. (03 marks)