

446/2

**BUILDING CONSTRUCTION**

**Paper 2**

**(Project)**

**January-July 2026**



**THE KENYA NATIONAL EXAMINATIONS COUNCIL**

**Kenya Certificate of Secondary Education**

**Building Construction**

**Paper 2**

**(Project)**

**INSTRUCTIONS TO CANDIDATES:**

The drawings attached show parts of a building as follows:

**TEST A: BLOCK WORK AND BRICKWORK**

**TEST B: WOODEN WALL AND FLOOR MODEL**

Using the materials provided, build the walls and construct the model.

**Notes:**

- (a) *The project should be carried out using hand tools only.*
- (b) *Masonry work should be set on a firm and fairly level ground using bricks and blocks or stone [depending on which one is easily available].*
- (c) *All dimensions are in millimetres unless otherwise stated. For schools with a large candidature, the horizontal dimensions may be reduced by a half but proportionality must be maintained.*
- (d) *General tolerance:*
  - (i)  $\pm 5$  mm on masonry work.
  - (ii)  $\pm 4$  mm on carpentry work.
  - (iii)  $+2$  mm on carpentry joints.
- (e) *Scribe your index number on all your project.*
- (f) *Candidates should check the question paper to ascertain that all the pages are printed as indicated and no questions are missing.*

**This paper consists of 6 printed pages.**

**Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.**

**TEST A: BLOCKWORK AND BRICKWORK****Preamble:**

**Test A** show drawings of a wall built in blockwork or stonework and brickwork. Archwork is constructed in shaped voussoirs. The wall has ceramic tile facing. The back of the wall is plastered as shown in the drawing and is finished smooth with a trowel while the floor screed is given a wood float finish.

Blockwork and stonework are finished flush, while the brickwork is given a concave finish.

**Note : If blocks are used then stones do not have to be used for the project.**

**Task:**

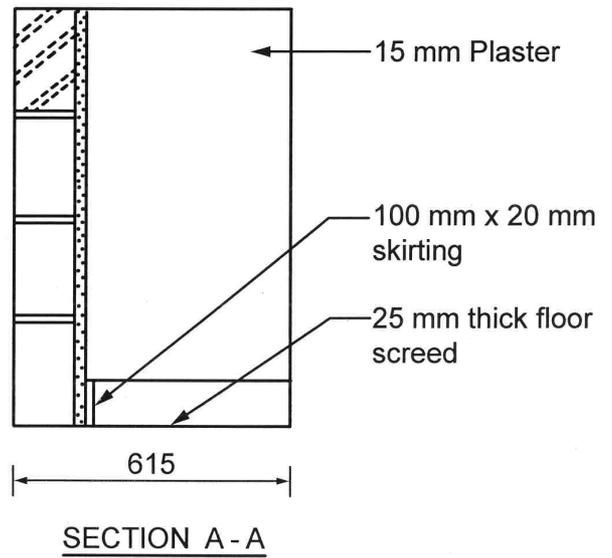
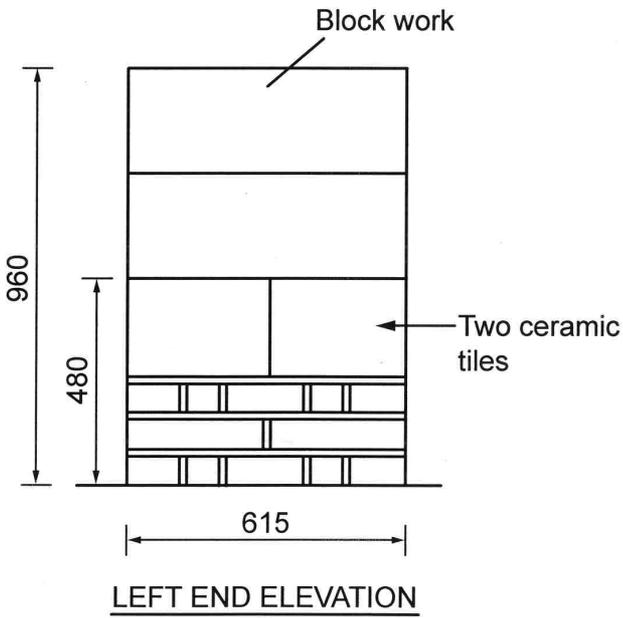
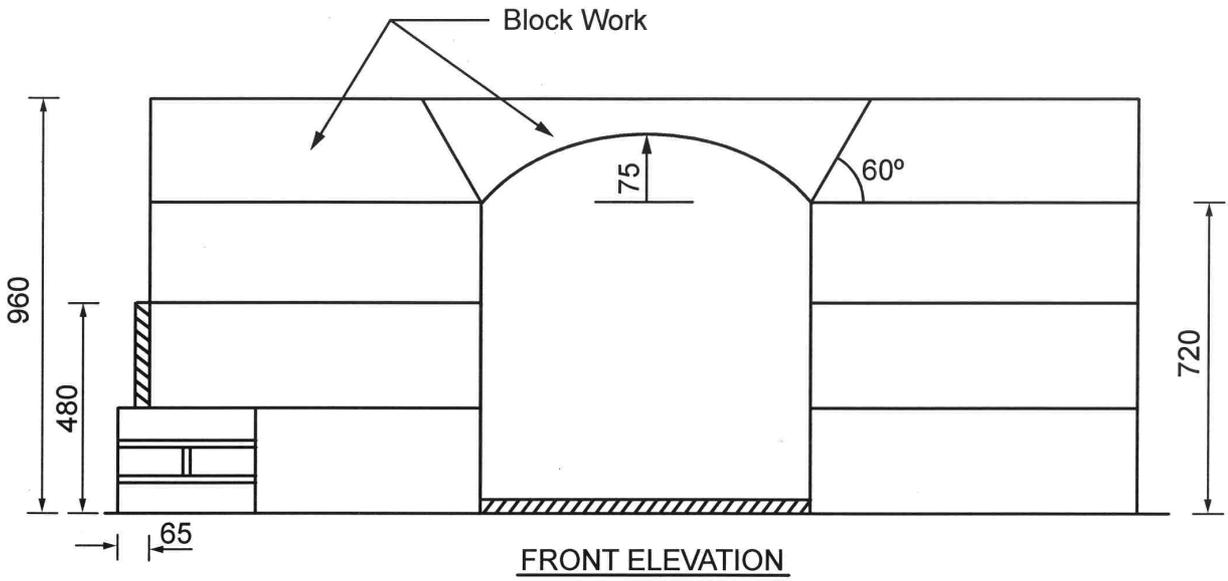
- Bond the wall by inserting the incomplete bonding details.
- Set out and build the wall as shown in the drawings.

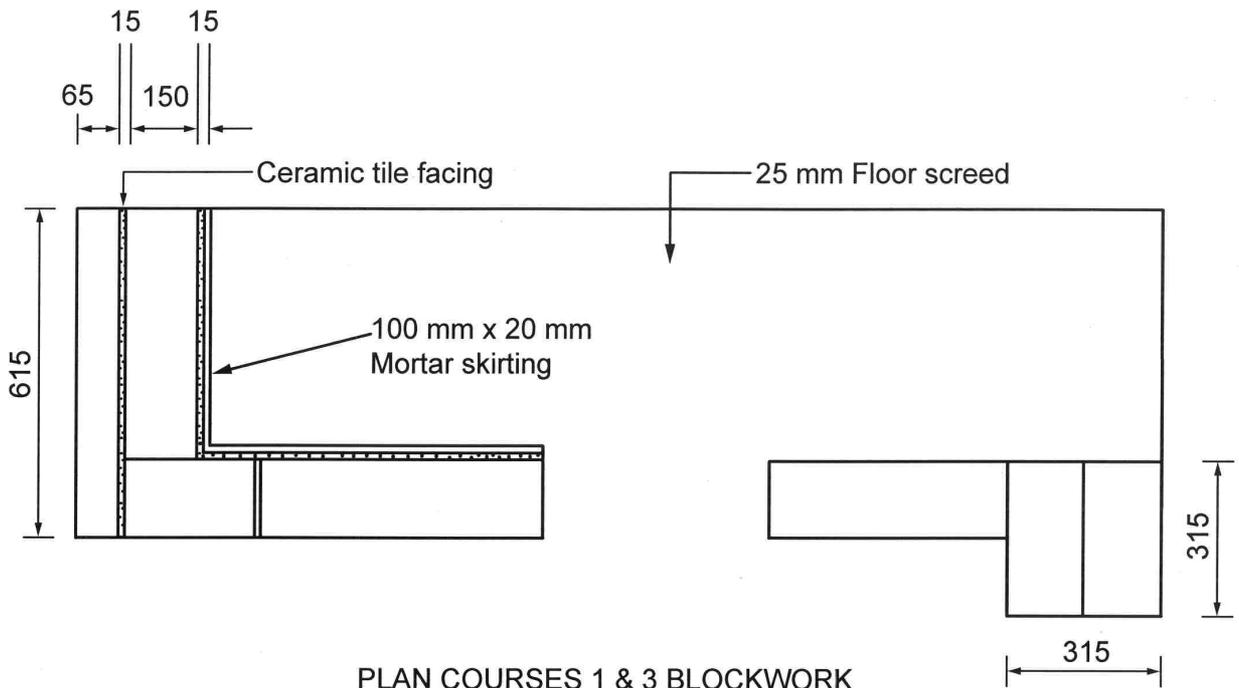
**MATERIAL SPECIFICATION PER CANDIDATE**

(54 marks)

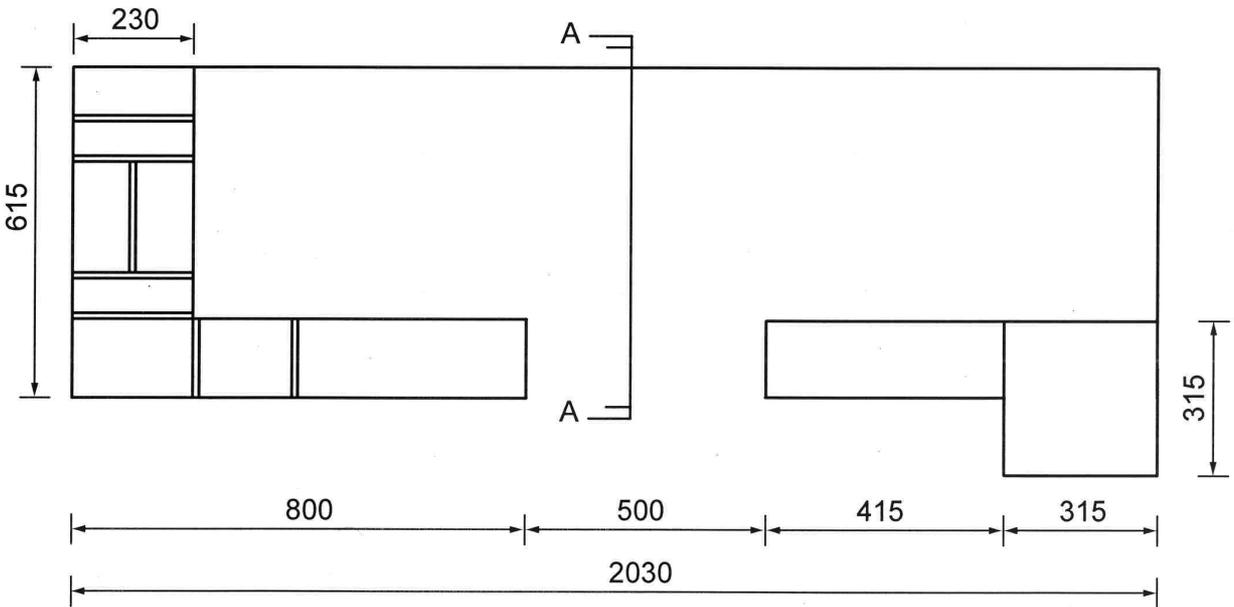
No.	Item	Material	Quantity	Size	Remarks
1.	Brickwork	Clay/concrete bricks	24	250 x 115 x 75	Bedded in 100 lime mortar
2.	Block work/ Stone work	Concrete blocks or quarry stones	18	450 x 225 x 150	Bedded in lime mortar
3.	Block work/ Stone work	Concrete block or quarry stones	10	300 x 225 x 150	For top course
4.	Tile work	Ceramic tiles	2	300 x 300	For facing
5.	Mortar	Lime/sand	Sufficient	-	For bedding blocks, bricks, stones and plastering

TEST A:





PLAN COURSES 1 & 3 BLOCKWORK  
PLAN COURSE 4 CERAMIC TILE FACING



PLAN COURSES 2 & 4 BLOCKWORK  
PLAN COURSES 1 & 3 BRICKWORK

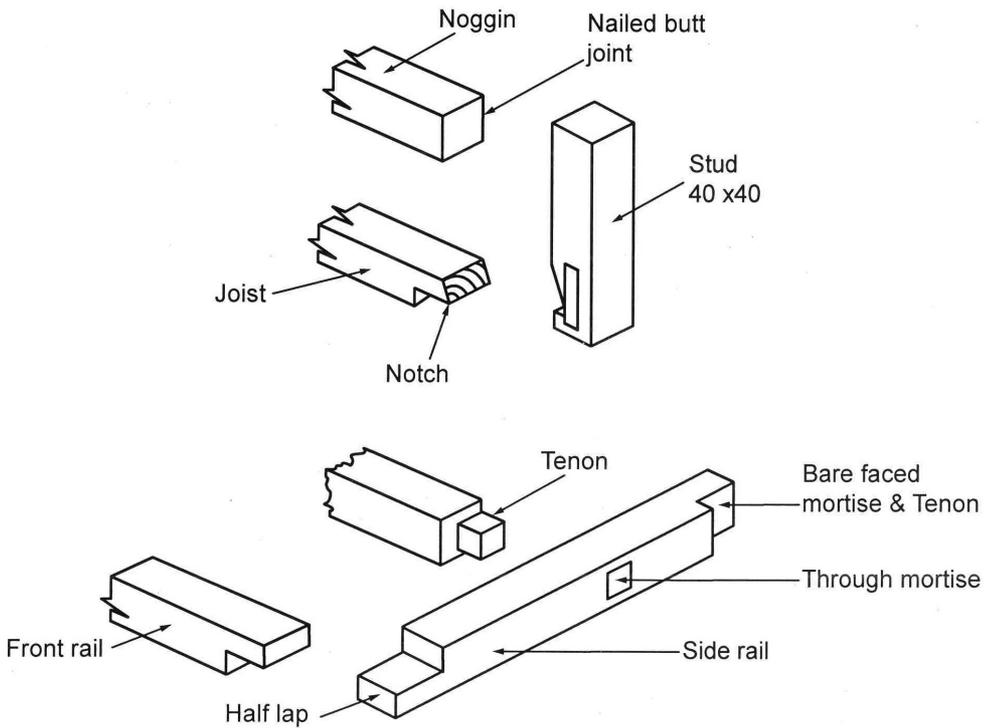
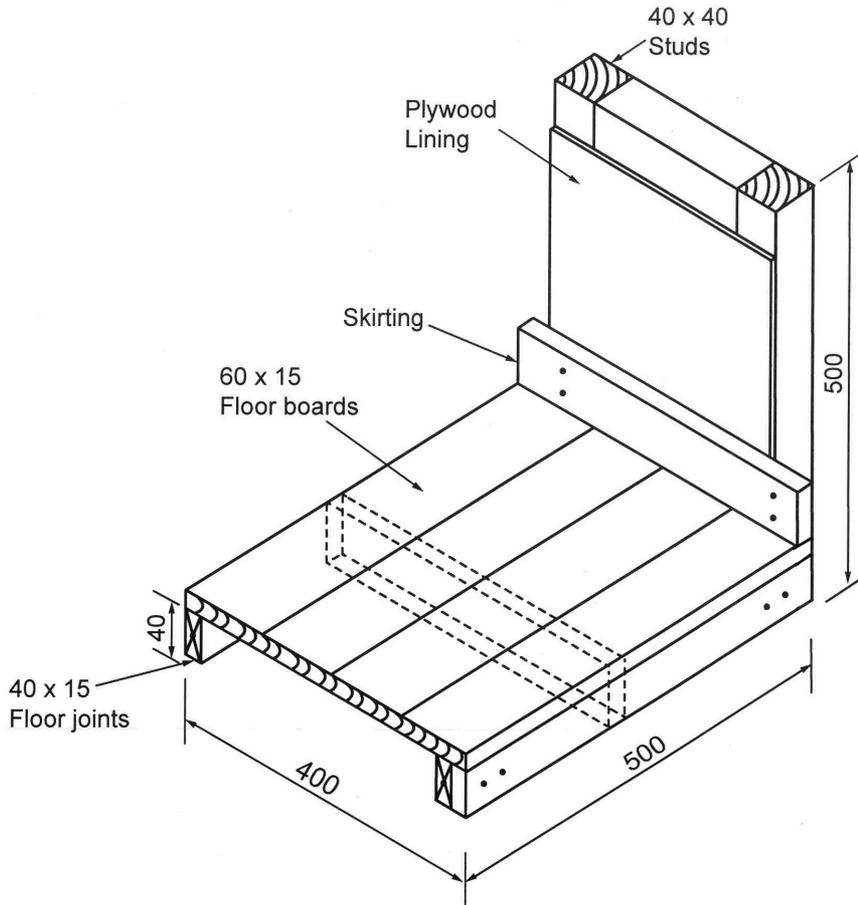
**TEST B: WOODEN WALL AND FLOOR MODEL**

Test B shows an isometric view and joint details of a floor model. Prepare the members and construct the model.

**MATERIAL SPECIFICATIONS PER CANDIDATE**

<b>Item No.</b>	<b>Description</b>	<b>Finished size</b>	<b>Length</b>	<b>Quantity</b>
1.	Studs	40 x 40	500	2
2.	Floor boards	60 x 15	500	4
3.	Side rail	60 x 15	500	1
4	Floor joists	40 x 15	500	2
5.	Bottom joist	40 x 40	370	1
6.	Noggin	40 x 40	370	1
7.	Skirting	60 x 15	400	1
8.	Plywood for wall lining	340 x 400	-	1

TEST B:



THIS IS THE LAST PRINTED PAGE.