



THE KENYA NATIONAL EXAMINATIONS COUNCIL

Kenya Certificate of Secondary Education

BUILDING CONSTRUCTION PROJECT

SCORING GUIDE

**PROJECT: TEST A - BLOCKWORK AND BRICKWORK
TEST B - TIMBER ROOF MODEL**

CANDIDATE'S NAME _____

INDEX NO. _____

NOTES:

- a) Masonry work should be set on a firm and fairly level ground.
- b) All dimensions are in millimetres unless otherwise stated.
- c) General Tolerance:
 - (i) $\pm 5\text{mm}$ on masonry work.
 - (ii) $\pm 4\text{mm}$ on carpentry work.
 - (iii) $+ 2\text{mm}$ on carpentry joints.
- d) Scribe your index number on all your projects.

2. Marking guide

- (a) Within tolerance - award full mark.
- (b) Outside tolerance - award no mark.

PROJECT MARKED OUT OF		CANDIDATE'S SCORE
TEST A	54	
TEST B	46	
GRAND TOTAL	100	

This Scoring Guide consists of 4 printed pages.

TEST A: BLOCKWORK AND BRICKWORK

ITEM NO.	AREAS TO BE MARKED	MAXIMUM MARKS	MARKS SCORED
1.	Interpretation of the drawing.	2	
	Sub-total	2	
2.	Dimensions 710, 695, 500, 620, 225, 600, 315, 465 Height 720, 960	(10 x 1) 10	
	Sub-total	10	
3.	Plumbness Any 6 places @ 1	(6 x 1) 6	
	Sub-total	6	
4.	Squareness Any 6 places @ 1	(6 x 1) 6	
	Sub-total	6	
5.	Levelness Any 4 places @ 1	(4 x 1) 4	
	Sub-total	4	
6.	Plaster work - Plumbness (Any 3 places 3 x 1) - Squareness two places - Top and bottom (2 x 1) - Straightness by diagonals 2 faces (2 x 2 x $\frac{1}{2}$) - Wood front finish	3 2 2 1	
	Sub-total	8	
7.	Bonding - Brickwork - Blockwork - Pier	2 3 2	
	Sub-total	7	
8.	Archwork - Rise (90 mm) - Uniformity of voussoirs - Plumb voussoirs (Any 4 x $\frac{1}{2}$) - Straightness with wall - Smooth soffit	2 2 2 1 1	
	Sub-total	8	
9.	Floor screed - Level at 2 places by diagonals (2 x 1) - Steel float finish	2 1	
	Sub-total	3	
	GRAND TOTAL	54	

TEST B: MODEL TRUSSED ROOF

ITEM NO.	AREAS TO BE MARKED	MAXIMUM MARKS	MARKS SCORED
1.	Correct interpretation	2	
	Sub-total	2	
2.	Dimensions:		
	450 (2 x 1)	2	
	350 (2 x 1)	2	
	150	1	
	40 x 40 studs (any 2 x 1)	2	
	40 x 20 wall plate } (Any 3 x 1)		
	40 x 20 rafters }	3	
	Pitch 30°	2	
	50 mm eaves	1	
	Sub-total	13	
3.	Joints		
	Half lap (wall plate to wall plate) (4 x $\frac{1}{2}$)	2	
	Birdsmouth (Rafter to wall plate) (4 x 1)	4	
	Butt joint:		
	Eaves to fascia board (4 x $\frac{1}{2}$)	2	
	Ridge and rafter (4 x $\frac{1}{2}$)	2	
	Stud to wall plate (4 x $\frac{1}{2}$)	2	
	Rafter to the beam (4 x $\frac{1}{2}$)	2	
	Sub-total	14	
4.	Squareness		
	Wall plate to stud (4 x 1)	4	
	Wall plate to wall plate (4 x 1)	4	
	Fascia board to soffit (2 x 1)	2	
	Sub-total	10	
5.	Alignment		
	Purlins (2 x 1)	2	
	Rafter (2 x 1)	2	
	Sub-total	4	

ITEM NO.	AREAS TO BE MARKED	MAXIMUM MARKS	MARKS SCORED
6.	Stability Not rocking	1	
	Sub-total	1	
7.	Plumbness Plumb cut on rafter (2 x 1)	2	
	Sub-total	2	
	GRAND TOTAL	46	