449/2 DRAWING AND DESIGN PAPER 2 JULY/AUGUST 2013 TIME: 2½ HOURS

KIRINYAGA CENTRAL DISTRICT JOINT EXAMINATION - 2013

KenyacCertificate of Secondary Education DRAWING AND DESIGN PAPER 2 TIME: 2<sup>1</sup>/<sub>2</sub> HOURS

## **INSTRUCTIONS TO THE CANDIDATES:**

- 1. This paper has **ONE COMPILSORY** question.
- 2. The paper is to be issued to the candidates 30 minutes before the exam starts.
- 3. Candidates are advised to spend this time understanding the design problem and planning the work.

## FOR EXAMINER'S USE ONLY:

QUESTION	SECTION	MAXIMUM	CANDIDATES	
		SCORE	SCORE	
	a	6		
ISIGN M	b (i)	11		
DESIGN PROBLEM	b (ii)	16		
Fr.	c (i)	4		
	(ii)	3		
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## **DESIGN PROBLEM: (40 MARKS)**

Design a 3 leg painter's ladder.

- <u>Considering that</u>: It should have a flat top for the painter to place the paints. 1.
- It should be possible to raise and lower the height to the convenient 2. of the painter.
- When not in use it should be stored in a narrow space. 3.
- At least two different materials to be used in the design. 4.

## **<u>REQUIREMENTS</u>**:

		Make	rough sketches of two possible designs of the finished ladder.	(6mks)
NOTE	(b)	(i)	Make a pictorial sketch of the selected design.	(11mks)
\$0 <sup>°C</sup>		(ii)	Sketch the design details of the mechanisms to allow for consideration 2 and 3 above.	(16mks)
	(c)	(i)	List materials selected for the design and give a reason for the choice of each.	(4mks)
		(ii)	State the method used for joining the parts.	(3mks)

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