**449/2**

**DRAWING AND DESIGN**

**PAPER 2**

**TIME: 2 ½ HOURS**

***Kenya Certificate of Secondary Education (K.C.S.E.)***

**449/2**

**Drawing and design**

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**INSTRUCTIONS TO CANDIDATES**

1. ***You should have the following for this examination.***

***Size A3 sheet of drawing papers***

***Drawing instruments***

1. ***This paper contain ONE compulsory question***
2. ***This paper is to be issued to the candidates 30minutes before the examination starts***
3. ***The candidate is advised to spend this time understanding the design problem and planning the work on***

***one of drawing papers provided.***

**DESIGN PROBLEM (40MARKS)**

***A physically challenged person on wheel chair usually requires a special working table to perform different tasks. Design a suitable table for challenged person considering the following.***

1. It should be easily moved from one position to another.
2. It should be adjustable to comfortable heights.
3. The working top should be adjustable to any desired angle of inclination.
4. The table should have an extended top that is collapsible
5. The table should have provision for placement of light stationery like pencil, pens, erasers, and rulers.

**REQUIREMENTS**

1. Make free-hand sketches of two possible solutions for your design (6marks)
2. Select **one** of the designs in (a) above and make are fined labeled pictorial sketch (13marks)
3. Make detailed sketches of the considerations 1-5 above (16marks)
4. List **two** materials to be used and state one reason for the choice (2marks)
5. State **three** methods of joining the parts and state where each is used (3marks)