**MOCK EXAM FOR DECEMBER 2021**

**Kenya Certificate of Secondary Education**

**DRAWING AND DESIGN**

**Paper 2**

**(PRACTICAL)**

2hours

Instructions to candidates

(a) You should have the following for this examination:

* 4 sheets of drawing paper size A3;
* Drawing instruments.

(b) This paper has ONE COMPULSORY question.

(c) This paper is to be issued to the candidates 30 minutes before the examination starts.

(d) The candidates are advised to spend this time understanding the design problem and planning the work on one of the drawing papers provided.

(e) This paper consists of 2 printed pages.

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

**DESIGN PROBLEM:** (40 marks)

1. Design an office table suitable for use by a disabled person on a wheel chair. The table should cater for disabled person with various sizes of wheel chairs.

**The design should have the following consideration.**

1. The table top should allow for a comfortable working position while sited on a wheel chair.
2. It should be possible to adjust the table top to accommodate various sizes of wheel chairs.
3. The table should be easily movable to convenient positions by the disabled person.
4. At least two different materials are to be used.

**REQUIREMENTS**

1. Make a pictorial sketch of two possible designs of the table (6marks)
2. Select one of the designs in (a) above and make a refined pictorial drawing.

 (15marks)

1. Draw exploded pictorial views showing the working mechanisms for each of the considerations in i, ii, and iii and label all parts. (12 marks)
2. Name two different materials used in the design and state a reason for choice of each. (4marks)
3. State two different methods used in joining the parts. (3marks)