**TRIAL EXAMINATIONS 2021**

**Kenya Certificate of Secondary Education (KCSE)**

**441/1 - HOME SCIENCE - Paper 1**

**(Theory)**

**Nov/Dec. 2021 – 2½ Hours**

**Name: …………………………………..… Index No: ……….………...Stream ……..**

**Candidate’s** **Signature**: ..……………………….…..……………. **Date:………………**

**INSTRUCTIONS**

1. Write your name and index number in the spaces provided above
2. Sign and write the date of examination in the spaces provided above
3. Answer all questions in section **A** and **B** and any two questions from section **C**
4. Answers to all questions must be written in the booklet
5. ***This paper consists of 12 printed pages.***
6. ***Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.***

**FOR EXAMINER’S USE ONLY**

|  |  |  |  |
| --- | --- | --- | --- |
| **SECTIONS** | **QUESTIONS** | **MAX. SCORE** | **ACTUAL SCORE** |
| **A** | **1 – 22** | **40** |  |
| **B** | **23** | **20** |  |
| **C** |  | **20** |  |
|  |  | **20** |  |
| **TOTAL SCORE** | **100** |  |

**SECTION A (40 MARKS)**

**(Answer ALL questions)**

1. Name **two** methods of managing fullness worked by folding the material. (1 mark)

………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Mention **two** processes which must be completed before fixing cuffs. (2 marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Mention **two** ways of unblocking a blocked kitchen sink. (2 marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………

1. State **two** uses of pockets in garments. (1 mark)

………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Outline **two** methods of managing hems in garments. (2 marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Give **four** uses of facings in garment construction. (2 marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Mention **four** uses of vinegar in food cookery. (2 marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. State **two** reasons for standing pancakes batter mixture before cooking. (2 marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Name **two** cellulosic fibre. (1 mark)

………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Give **two** functions of melanin pigment found in the skin. (2 marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Mention **three** results of burning test carried out on cotton fibre. (1½ marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. List **four** factors which affect the efficiency of a detergent. (2 marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Give the difference between temporary and permanent hardness of water. (2 marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Give the names of the following vitamins (2 marks)
2. Vitamin **A** ……………………………..
3. Vitamin **E** ……………………………..
4. Vitamin **D** ………………………………
5. Vitamin **K** ………………………………
6. Mention **four** types of information found on receipts and invoices for any goods sold. (2 marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Mention **four** agencies dealing with consumer protection. (2 marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. State **two** qualities of a good tape measure. (1 mark)

………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Differentiate between advancing and receding colours. (2 marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. What do you understand by the term ‘pickling’ (2 marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Give **four** reasons for using floor covering in house. (2 marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. State **three** factors that influence a layout plan in garment construction. (3 marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Give **three** reasons why fruits and vegetables are blanched before freezing or drying. (1½ marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

**SECTION B (COMPULSORY) (20 MARKS)**

1. Your mother has been invited to attend a regional women’s conference. She has asked you to help her in the preparation. Describe how you would:
2. Clean a muddy black leather shoes without laces. (9 marks)

…………………………………………………………………………………………………………………………………………………………………………………………………….…………………………………………………………………………………………………………………………………………………………………………………………………….…………………………………………………………………………………………………………………………………………………………………………………………………….…………………………………………………………………………………………………………………………………………………………………………………………………….…………………………………………………………………………………………………………………………………………………………………………………………………….………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..

1. Clean a plastic soap dish (5 marks)

…………………………………………………………………………………………………………………………………………………………………………………………………….…………………………………………………………………………………………………………………………………………………………………………………………………….………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Launder her silk scarf. (6 marks)

…………………………………………………………………………………………………………………………………………………………………………………………………….…………………………………………………………………………………………………………………………………………………………………………………………………….……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

**SECTION C (40 MARKS)**

**(Answer any two questions from this section)**

1. Outline **four** guidelines to follow when choosing flowers for a flower arrangement. (4 marks)
2. Outline **four** ways of ensuring that a sleeve is well set. (4 marks)
3. Explain **four** factors a family should bear in mind to ensure proper nutritional status for its member. (8 marks)
4. State **four** points to bear in mind when cutting button holes. (4 marks)
5. Suggest with reasons four advantages of Home-based care of the sick. (4 marks)
6. Describe the preparation of a shirt collar for attachment to a garment. (Include diagrams). (8 marks)
7. Explain how flour mixtures are raised in the following methods:-
8. Physically (3 marks)
9. Biologically (3 marks)
10. Identify four reasons for skipping of machine stitches during stitching. (2 marks)
11. Define and give the reasons for the following construction (6 marks)
12. Stay stitching
13. Under stitching
14. Grading/ layering
15. Explain the preparation and attachment of a square patch pocket. Include diagrams (8 marks)
16. Explain three factors that might lead to the birth of a deformed baby. (6 marks)

…………………………………………………………………………………………………………………………………………………………………………………………………….………………………..….…………………………………………………………………………………………………………..………………………………………………………………….…………………………………………..……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..…………………………………………………………………………………………………………………………………………………………………………………………………….………………………..….…………………………………………………………………………………………………………..………………………………………………………………….…………………………………………..……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..…………………………………………………………………………………………………………………………………………………………………………………………………….………………………..….…………………………………………………………………………………………………………..………………………………………………………………….…………………………………………..……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..…………………………………………………………………………………………………………………………………………………………………………………………………….………………………..….…………………………………………………………………………………………………………..………………………………………………………………….…………………………………………..……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..…………………………………………………………………………………………………………………………………………………………………………………………………….………………………..….…………………………………………………………………………………………………………..………………………………………………………………….…………………………………………..……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..…………………………………………………………………………………………………………………………………………………………………………………………………….………………………..….…………………………………………………………………………………………………………..………………………………………………………………….…………………………………………..……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..…………………………………………………………………………………………………………………………………………………………………………………………………….………………………..….…………………………………………………………………………………………………………..………………………………………………………………….…………………………………………..……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..…………………………………………………………………………………………………………………………………………………………………………………………………….………………………..….…………………………………………………………………………………………………………..………………………………………………………………….…………………………………………..……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..…………………………………………………………………………………………………………………………………………………………………………………………………….………………………..….…………………………………………………………………………………………………………..………………………………………………………………….…………………………………………..……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..…………………………………………………………………………………………………………………………………………………………………………………………………….………………………..….…………………………………………………………………………………………………………..………………………………………………………………….…………………………………………..……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..…………………………………………………………………………………………………………………………………………………………………………………………………….………………………..….…………………………………………………………………………………………………………..………………………………………………………………….…………………………………………..……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..…………………………………………………………………………………………………………………………………………………………………………………………………….………………………..….…………………………………………………………………………………………………………..………………………………………………………………….…………………………………………..……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..…………………………………………………………………………………………………………………………………………………………………………………………………….………………………..….…………………………………………………………………………………………………………..………………………………………………………………….…………………………………………..……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..…………………………………………………………………………………………………………………………………………………………………………………………………….………………………..….…………………………………………………………………………………………………………..………………………………………………………………….…………………………………………..