

1801/104
TEXTILE MATERIAL KNOWLEDGE
AND FABRIC COLOURATION THEORY
June/July 2022
Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL
CRAFT CERTIFICATE IN FASHION DESIGN AND GARMENT MAKING
TECHNOLOGY

MODULE I

TEXTILE MATERIAL KNOWLEDGE AND FABRIC COLOURATION THEORY

3 hours

INSTRUCTIONS TO CANDIDATES

This paper consists of SIX questions.

Answer question ONE (compulsory) and any other FOUR questions in the answer booklet provided.

Maximum marks for each part of a question are as indicated.

Candidates should answer the questions in English.

This paper consists of 3 printed pages.

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

1. (a) (i) Outline **three** desirable qualities of fabrics suitable for Vat dyeing. (3 marks)
- (ii) Explain **four** safety measures to observe when dyeing fabrics. (8 marks)
- (b) (i) Highlight **three** characteristics of printed fabrics. (3 marks)
- (ii) Explain the term 'curing' as used in fabric colouration. (2 marks)
- (c) Classify each of the following colours: (4 marks)
- (i) violet;
- (ii) black;
- (iii) blue-green;
- (iv) blue.
2. (a) Identify **six** types of filament fibres. (6 marks)
- (b) Describe 'stencil printing'. (4 marks)
- (c) Explain **five** care measures to observe when removing stains from fabrics. (10 marks)
3. (a) (i) Outline **four** characteristics of plain weft knit fabrics. (4 marks)
- (ii) Explain **three** advantages of using knitted fabrics for clothing. (6 marks)
- (b) Explain **five** factors to consider before washing a fabric. (10 marks)
4. (a) Explain **five** desirable qualities of sewing thread. (10 marks)
- (b) Distinguish between 'sizing' and 'de-sizing' in fabric processing. (4 marks)
- (c) Explain each of the following terms as used in wool fibre processing:
- (i) scouring; (2 marks)
- (ii) carbonization; (2 marks)
- (iii) noils. (2 marks)

5. (a) Explain the viscose fabric burning test. (4 marks)
- (b) Highlight **seven** properties of polyester fabrics. (7 marks)
- (c) Describe the 'wet spinning' fibre production process. (3 marks)
- (d) Distinguish between 'proteinic' and 'cellulosic' fibres, citing **two** examples in each case. (6 marks)
- * 6. (a) Outline **five** disadvantages of each of the following types of fabrics:
- (i) cotton; (5 marks)
- (ii) acetate. (5 marks)
- (b) Explain the **five** motions of weaving. (10 marks)

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