

2803/102
TEXTILE SCIENCE I AND
CLOTHING CONSTRUCTION I
THEORY
Oct. / Nov. 2022
Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN FASHION DESIGN AND CLOTHING TECHNOLOGY

MODULE I

TEXTILE SCIENCE I AND CLOTHING CONSTRUCTION I THEORY

3 hours

INSTRUCTIONS TO CANDIDATES

This paper consists of TWO sections; A and B.

Answer any THREE questions from section A and any TWO questions from section B 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.

SECTION A: TEXTILE SCIENCE I (60 marks)

Answer any **THREE** questions from this section.

1. (a) Outline **three** effects of napping in cotton fabrics. (3 marks)
- (b) (i) Explain the term 'water proof finish' in fabrics. (2 marks)
- (ii) Outline **six** uses of water resistant materials. (6 marks)
- (c) Explain **two** positive properties of asbestos fibres. (4 marks)
- (d) Highlight **five** reasons for blending fibres. (5 marks)
2. (a) Outline **six** properties of cotton fibres. (6 marks)
- (b) Describe **three** retting methods in linen fibre production. (6 marks)
- (c) Outline **four** preparatory measures to ensure, before a chemical test. (4 marks)
- (d) Identify **four** uses of felted fabrics. (4 marks)
3. (a) Explain **two** shortcomings of chemical finishes. (4 marks)
- (b) Outline **four** ways of deterring moth attack on fabrics. (4 marks)
- (c) Highlight **four** factors which contribute to abrasion resistance in fabrics. (4 marks)
- (d) Explain **four** causes of woven fabric shrinkage. (8 marks)
4. (a) Explain **three** objectives of varying yarn formation methods. (6 marks)
- (b) Explain **three** factors which contribute to twill fabric properties. (6 marks)
- (c) Distinguish between 'yarn twist' and 'yarn doubling'. (4 marks)
- (d) Outline **four** properties of a sewing thread. (4 marks)
5. (a) Identify **four** factors which may contribute to the weight of a fabric. (4 marks)
- (b) Outline **three** desirable properties of the following types of fabrics:
- (i) quilts; (3 marks)
- (ii) satin. (3 marks)
- (c) Highlight **five** characteristics of combed yarns. (5 marks)
- (d) Outline **five** factors which determine the results in dyed fabric. (5 marks)

SECTION B: CLOTHING CONSTRUCTION I (40 marks)

Answer any TWO questions from this section.

6. (a) Explain **three** advantages of double needle sewing machines. (6 marks)
- (b) Outline **four** functions of a table in a garment making workshop. (4 marks)
- (c) Explain **three** factors to consider when choosing hand sewing needles. (6 marks)
- (d) Explain **two** techniques of achieving a knife edged effect in sewing. (4 marks)
7. (a) Outline the procedure for constructing an inseam pocket along a topstitched yoke seam. (10 marks)
- (b) Identify **six** techniques of decorating an edge. (6 marks)
- (c) Outline **four** ways of securing a facing. (4 marks)
8. (a) Identify **four** techniques of making buttonholes. (4 marks)
- (b) Distinguish between 'under pressing' and 'top pressing' in a garment making process. (4 marks)
- (c) Outline **four** methods of disposing fullness which can be incorporated in a yoke seam. (4 marks)
- (d) Highlight **four** ways of maintaining a sewing machine. (4 marks)
- (e) Identify **four** pressing accessories and equipment. (4 marks)

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