

2803/202
TEXTILE SCIENCE II AND CLOTHING
CONSTRUCTION II THEORY
June/July 2022
Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL
DIPLOMA IN FASHION DESIGN AND CLOTHING TECHNOLOGY
MODULE II

TEXTILE SCIENCE II AND CLOTHING CONSTRUCTION II 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 4 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 II (60 marks)

Answer any THREE questions from this section.

1. (a) (i) Explain the term 'synthetics' as used in textile fibre production. (2 marks)
- (ii) Highlight **six** advantages of synthetic fibres. (6 marks)
- (b) (i) Explain **three** factors that may make polyester fabrics uncomfortable to wear. (6 marks)
- (ii) Explain **three** factors that may make acetate fabrics comfortable to wear. (6 marks)
2. (a) Illustrate the care label symbols for each of the following:
- (i) use warm iron;
- (ii) dry on line;
- (iii) wash in boiling water;
- (iv) tumble dry;
- (v) do not dry-clean;
- (vi) do not wash. (6 marks)
- (b) Describe each of the following yarn texturing methods:
- (i) knit-de-knit; (3 marks)
- (ii) false twisting. (3 marks)
- (c) Explain **four** care measures to observe when hand-washing a printed rayon fabric. (8 marks)
3. (a) Outline **three** disadvantages of lace fabrics. (3 marks)
- (b) Highlight **seven** advantages of polyester fabrics. (7 marks)
- (c) Explain **five** factors that affect the dye-ability of a fabric. (10 marks)
4. (a) Describe the 'needle felting' process of fabric formation. (4 marks)

- (b) With the aid of illustrations, explain the longitudinal and cross-sectional microscopic appearance of viscose fibres. (5 marks)
- (c) (i) Explain the term 'colour fast', as used in fabric colouration. (2 marks)
- (ii) Explain the procedure for testing 'bleeding fastness' in fabrics. (4 marks)
- (d) Illustrate the textile fibre classification chart for the following fibres. (5 marks)
(nylon, polyester, acrylics)
5. (a) Explain each of the following terms as used in man-made fibre production:
- (i) polymer; (2 marks)
- (ii) stretching; (2 marks)
- (iii) crimping. (2 marks)
- (b) Describe the 'rotary' screen printing process. (5 marks)
- (c) (i) Explain the term 'steeping' as used in the viscose fibre production process. (2 marks)
- (ii) Highlight seven limitations of viscose fabrics. (7 marks)

SECTION B: CLOTHING CONSTRUCTION II (40 marks)

Answer any TWO questions from this section.

6. (a) Explain four factors that influence the choice of a seam. (8 marks)
- (b) Identify six stitching faults. (6 marks)
- (c) Explain three care measures for a sewing machine needle. (6 marks)
7. (a) Outline the steps for assembling a princess dress with the following details:
- (i) back seam with a zip opening; ✓
- (ii) bound armholes; ✓
- (iii) faced neckline; ✓
- (iv) plain open seams. ✓ (9 marks)

- (b) Explain **three** safety precautions to observe when handling cutting equipment. (6 marks)
- (c) Identify **five** areas where interfacing is applicable on a garment. (5 marks)
8. (a) With the aid of illustrations, explain the procedure for making a bound opening. (10 marks)
- (b) Explain **five** factors to consider when choosing a special sewing machine. (10 marks)

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