

2803/202

TEXTILE SCIENCE II AND CLOTHING
CONSTRUCTION II THEORY

June/July 2019

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 question 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.

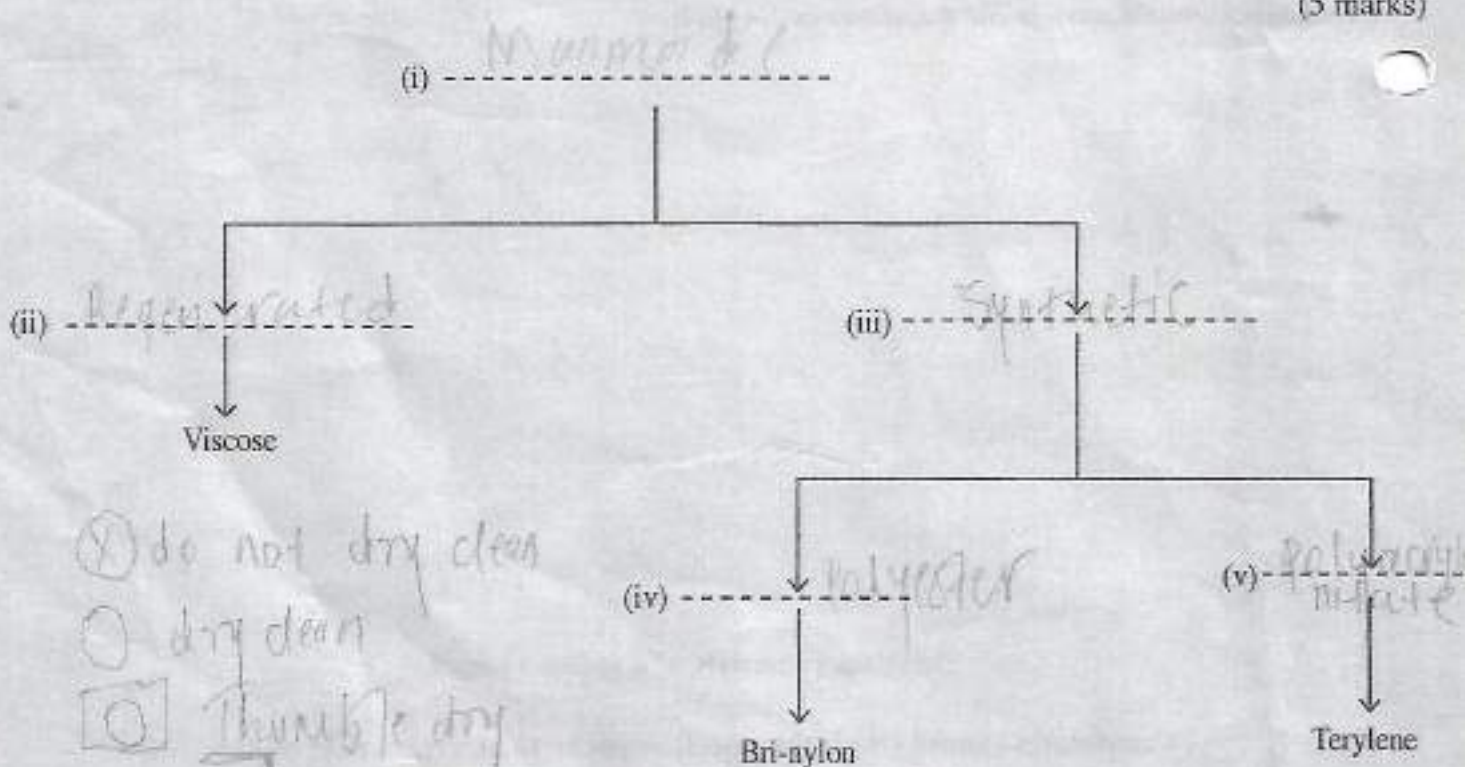
This paper consists of 4 printed pages.

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) Highlight **four** ways of identifying electrostaticity in fabrics. (4 marks)
- (b) (i) Outline **four** disadvantages of acrylic fabrics. (4 marks)
- (ii) Identify **two** acrylic fibre brand names. (2 marks)
- (c) (i) Distinguish between 'synthetic' and 'regenerated' fibres. (4 marks)
- (ii) Outline **six** general properties of regenerated fibres. (6 marks)
2. (a) (i) With the aid of illustrations, identify **five** symbols for drying as found on garment care labels. (5 marks)
- (ii) Illustrate the care label symbol for non dry-cleanable goods. (1 mark)
- (b) Explain each of the following acetate fibre production processes:
- (i) filtration; (2 marks)
- (ii) extrusion. (2 marks)
- (c) Highlight **five** advantages of viscose fabrics, citing the relevance of each during wear. (10 marks)
3. (a) Complete the following textile fibre classification chart by filling in the gaps: (5 marks)



- (b) (i) Outline **four** objectives of fabric colouration. (4 marks)
- (ii) Identify the **three** basic colours of the colour wheel. (3 marks)
- (c) Explain **four** precautions to observe when bleaching fabrics. (8 marks)
4. (a) Describe each of the following types of yarns:
- (i) filament; (2 marks)
- (ii) textured. (2 marks)
- (b) Identify **four** techniques of constructing net fabrics. (4 marks)
- (c) Highlight **four** limitations of lace fabrics. (4 marks)
- (d) Explain the 'stitch bonding' method of fabric formation, citing **five** end uses of the fabrics. (8 marks)
5. (a) Highlight **four** ways of preventing micro-organism attack on fabrics. (4 marks)
- (b) Explain each of the following textile fibre terms:
- (i) elastic recovery; (2 marks)
- (ii) cover power; (2 marks)
- (iii) texture. (2 marks)
- (c) Explain **four** factors that influence the performance of a fabric. (8 marks)
- (d) Identify **two** types of wax used during batik. (2 marks)

SECTION B: CLOTHING CONSTRUCTION II (40 marks)

Answer any TWO questions from this section.

6. (a) Outline **eight** accident prevention measures in a garment making workshop. (12 marks)
- (b) (i) State **two** reasons for finishing raw edges. (2 marks)
- (ii) Identify **six** methods of finishing raw edges. (6 marks)
7. (a) Explain **three** functions of trimmings on garments, citing **two** relevant examples in each case. (9 marks)

- (b) Identify **five** types of sewing machine attachments. (5 marks)
- (c) Illustrate the appearance of the straight sewing machine stitches under each of the following conditions:
- (i) upper tension too tight; (2 marks)
 - (ii) lower tension too tight; (2 marks)
 - (iii) balanced tension. (2 marks)
8. (a) Outline the procedure for making a welt pocket. (16 marks)
- (b) Identify **four** pressing faults. (4 marks)

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