

2803/202

TEXTILE SCIENCE II AND CLOTHING
CONSTRUCTION II THEORY

Oct./Nov. 2021

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 5 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) Highlight six advantages of nylon fabrics. (6 marks)
- (ii) State three effects of electrostaticity in nylon fabrics. (3 marks)
- (b) Identify each of the following Care Label information symbols: (7 marks)



- (c) Explain two precautions to observe when ironing acetate fabrics. (4 marks)

2. (a) Highlight **four** objectives of texturing man-made yarns. (6 marks)
- (b) (i) Outline the procedure for washing a white knitted nylon scarf. (5 marks)
- (ii) Explain **three** negative effects of using water to clean garments. (6 marks)
- (c) Describe the 'cross-dyeing' method of fabric colouration. (3 marks)
3. (a) Explain the burning test for an acrylic fabric. (3 marks)
- (b) (i) Describe a 'velvet' fabric. (3 marks)
- (ii) Highlight **four** limitations of velvet fabrics. (4 marks)
- (iii) State **eight** uses of velvet fabrics in clothing. (4 marks)
- (c) Identify the **three** secondary colours, citing the colour that is directly opposite each on a colour wheel. (6 marks)
4. (a) Illustrate the classification chart for the following man-made fibres:
- (i) polyester;
 - (ii) viscose;
 - (iii) orlon;
 - (iv) crimplene;
 - (v) tricel;
 - (vi) polynosic;
 - (vii) tri-acetate;
 - (viii) acrylic.
- (10 marks)
- (b) Highlight **three** ways of identifying static electricity in fabrics. (3 marks)
- (c) Explain the procedure for testing colour fastness to light. (5 marks)
- (d) Explain the term 'condensation polymerization'. (2 marks)
5. (a) Describe the 'adhesive foam lamination' fabric production process. (3 marks)
- (b) Outline **five** properties of tri-acetate fabrics. (5 marks)
- (c) Describe the **three** methods of spinning man-made fibres. (12 marks)

SECTION B: CLOTHING CONSTRUCTION II (40 marks)

Answer any TWO questions from this section.

6. (a) State **three** functions of each of the following details in a garment:
- (i) seam: *reinforce eg collar*
prevent ends
strengthen (3 marks)
 - (ii) stitch: *secure*
bring pieces together
hold parts in its (3 marks)
 - (iii) pleat: *create volume*
decorative
beverage (3 marks)
- (b) Explain **four** desirable qualities for a good interlining. *to reduce bulk*
weight (8 marks)
- (c) Highlight **three** ways of ensuring flatness in a wide double pointed dart. (3 marks)
7. (a) Explain each of the following garment construction procedures:
- (i) binding: (2 marks)
 - (ii) finishing; (2 marks)
 - (iii) moulding. (2 marks)
- (b) Outline the procedure for assembling a one-piece dress with the following features:
- (i) button-through front opening with extended facings;
 - (ii) front panel seams;
 - (iii) back darts;
 - (iv) faced neckline;
 - (v) welt pocket;
 - (vi) plain open seams;
 - (vii) bound armhole.
- (14 marks)

8. (a) Identify five parts of a manual overlock machine. (5 marks)
- (b) With the aid of illustrations, explain the procedure for preparing and attaching a founce on to a sleeve. (9 marks)
- (c) Explain three care measures for a sewing machine needle. (6 marks)

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