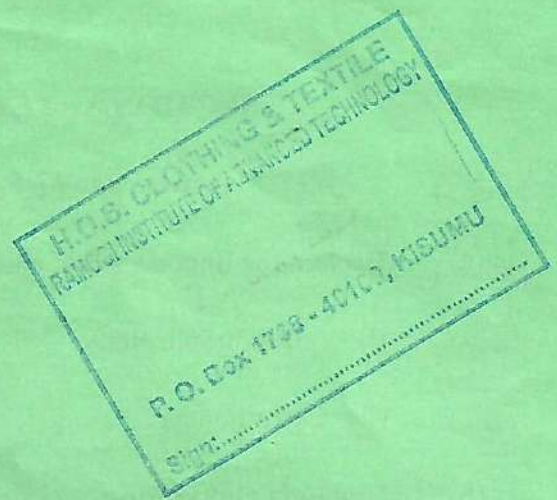2803/202
TEXTILE SCIENCE II AND CLOTHING
CONSTRUCTION II THEORY
June/July 2020
Time: 3 hours

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 in 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.
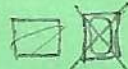***Candidates should answer the questions in English.***

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.

Turn over

SECTION A: TEXTILE SCIENCE II (60 marks)

Answer any THREE questions from this section.

1. (a) Explain the importance of each of the following properties in a fabric:

   (i) thermoplasticity; (2 marks)

   (ii) resiliency. (2 marks)

   (b) Highlight **eight** properties of viscose fabrics. (8 marks)

   (c) Outline **four** advantages and **four** disadvantages of drying fabrics in direct sunlight. (8 marks)

2. (a) Illustrate the symbols for each of the following care label information: (5 marks)

   (i) do not iron;

   (ii) drip dry;

   (iii) do not tumble dry;

   (iv) do not bleach;

   (v) use hot iron.

   (b) Explain **four** benefits of 'stretch' in fabrics during wear. (8 marks)

   (c) Describe the roller printing process. (7 marks)

3. (a) Explain the hot air bulking yarn texturing method, citing **three** properties of the resulting yarn. (6 marks)

   (b) Highlight **six** advantages of acetate fabrics. (6 marks)

   (c) With the aid of an illustration, describe the melt spinning process. (8 marks)

4. (a) State **two** disadvantages of net fabrics. (2 marks)

   (b) Explain **four** factors to consider before removing a stain from a fabric. (8 marks)

   (c) (i) Explain the term 'drawing' as used in nylon fibre production, citing **four** of its objectives. (6 marks)

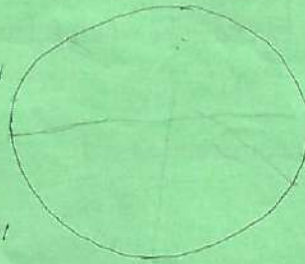   (ii) Outline **four** limitations of nylon fabrics. (4 marks)

5. (a) State the generic name for each of the following fibre types:

    (i) terylene; *pu* (1 mark)

    (ii) polynosic; *polyester* (1 mark)

    (iii) orlon; *nylon* (1 mark)

    (iv) crimplene. *polyester* (1 mark)

   (b) Illustrate a colour wheel to show the primary, secondary and tertiary colours.

   (12 marks)

   (c) Outline **four** advantages of 'nap' in fabrics. (4 marks)

   - Improve durability
   - hide defects

SECTION B: CLOTHING CONSTRUCTION II (40 marks)

Answer any TWO questions from this section.

6. (a) Identify **five** methods of finishing a neckline. (5 marks)

   • use bias binding
   • use collars
   • use of facing

   (b) Outline the procedure for assembling a skirt with the following details:

    (i) **four** gores;
    (ii) darts;
    (iii) shaped side pockets;
    (iv) back zip opening;
    (v) double stitched seams.

   (9 marks)

   (c) Explain **three** objectives of using a damp cloth during pressing. (6 marks)

7. (a) Describe each of the following clothing construction occupations:

    (i) fashion forecaster; (2 marks)

    (ii) fashion stylist. (2 marks)

   (b) Explain **two** aims of oiling a sewing machine. (4 marks)
   - Avoid rusting
   - maintain its durability

   (c) (i) State **three** characteristics of a well made knife pleat. (3 marks)
   - Flat   - correct measurement
   - correctly stitched

    (ii) With the aid of illustrations, explain the procedure for making a knife pleat.

   (5 marks)

   (d) Explain **two** ways of preventing an electric shock in the workshop. (4 marks)
   - cover all naked wires hanging on the floor
   - All electric switches to be turned off when not in use.

8.   (a)   Identify **four** types of temporary stitches applicable during clothing construction.

(handwritten) Diagonal tacking
- Tailor's tacking
- slip basting

(4 marks)

(b)   Explain **five** factors to consider when selecting a special machine attachment.

(handwritten) Price   urgency
Speed
Durability

(10 marks)

(c)   Outline **six** garment construction defects.

(6 marks)

THIS IS THE LAST PRINTED PAGE.