2803/102
TEXTILE SCIENCE I AND
CLOTHING CONSTRUCTION I THEORY
June/July 2017
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 in section A and any TWO questions from section B
in the answer booklet provided.
Marks to 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.

Turn over

SECTION A: TEXTILE SCIENCE I (60 marks)

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

1. (a) (i) Describe the visual fibre identification method. (2 marks)

   (ii) Explain **two** limitations of visual fibre identification. (4 marks)

   (b) Outline **six** general characteristics of cellulosic fibres. (6 marks)

   (c) Explain **four** uses of yarns. (8 marks)

2. (a) Describe **five** characteristics of felted fabrics. (10 marks)

   (b) Explain **four** stages at which textile related materials can be dyed. (8 marks)

   (c) Identify **four** types of dyes. (2 marks)

3. (a) Describe crocheting as a fabric construction method, citing **two** disadvantages of crocheted fabric. (4 marks)

   (b) (i) Explain **four** advantages of woven fabrics. (8 marks)

   (ii) Explain **four** possible causes of dimensional instability in woven fabrics. (8 marks)

4. (a) Outline **six** effects of mercerization on fabrics. (6 marks)

   (b) (i) Describe the friction calendering process. (4 marks)

   (ii) Explain **five** objectives of additive finishes. (10 marks)

5. (a) Outline **eight** behavioural characteristics of protein fibres. (12 marks)

   (b) Distinguish between the following:

   (i) shoddy and mungo; (4 marks)

   (ii) fabric count and balanced fabric. (4 marks)

SECTION B: CLOTHING CONSTRUCTION I (40 marks)

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

6. (a) Outline **five** desirable characteristics of fasteners. *They allow ease for* (10 marks)
   They enclose together *opening*
   They are easy to open

   (b) Identify **five** features that are both decorative and functional which can be incorporated
   in a dress. *Embroideries* *Bias bindings* (5 marks)
   laces
   gathers

   (c) Highlight **five** ways of decorating collar edges. (5 marks)
   Top stitching
   using the bias binding at the edge *Shaped edges*
   Use laces at the end. It can also make *finish armholes*
   it decorative. *neckline*
   opening

7. (a) Explain **four** areas where facings can be applied. (8 marks)

   (b) Outline **three** ways of ensuring flatness in yoke seams. (6 marks)

   (c) Explain **three** ways of making accurate hems. (6 marks)
   Straight hem fixed match and pin seam line the the corner blanketom.
   slip hem for accurate use light weight fabric

8. With the aid of illustrations, outline the procedure for preparing and fixing an eton collar with a
   facing. (20 marks)

Can be applied at the waistband where it is put together with the waistband to make it strong hence allowing it to fit well. Can also be applied on pocket flaps to make it more strong hence when turning it allow the edges of the pocket flap to be sharp on the collar to keep it fitting & look good when it is fixed on the bodice.

7b
6C
6a

3a
3 b(ii')

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4

1C
2b