2803/102 TEXTILE SCIENCE I AND CLOTHING CONSTRUCTION I THEORY June/July 2022

CLOTHING CONSTRUCTION I THEORY June/July 2022
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 **EIGHT** questions in **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 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.

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Turn over

# SECTION A: TEXTILE SCIENCE I (60 marks)

Answer any THREE questions from this section.

1.	(a)	(ii) Outline five characteristics of carded yarns. one - Jains that of	(3 marks) ate
	(b) _ N	Highlight six end uses of wool fibres. Home furnishing.	(6 marks)
	(c) '	Outline six properties of cotton fibres.	(6 marks)
2.	(a)	Outline five general characteristics of each of the following:	
		(i) low absorbency fibres;	(5 marks)
		(ii) amorphous fibres.	(5 marks)
	(b)	Highlight four fabric properties which can be affected by the cross sectional of a fibre. Strength Diameter Reaction do bleaches	structure (chiga (4 marks)
	(c)	Explain three parameters to check during a visual fibre identification process.	(6 marks)
3.	(a)	(i) Explain three shortcomings of fabric finishes.	(6 marks)
		(ii) Identify four types of chemical finishes.	(4 marks)
	(b)	Outline <b>four</b> processes undertaken in the conversion of yarns into threads.	(4 marks)
	(c)	Explain three ways of modifying yarn properties.  Dieting bleaching bleaching	(6 marks)
4.	(a)	Describe four colour application stages in natural textile products citing two	(10 marks)
	(b)	Identify four characteristics of plain woven fabrics.	(4 marks)
	(c)	Explain three objectives of preparatory processes in textiles.	(6 marks)
5.	(a)	Briefly explain four causes of faults in woven fabrics.	(6 marks)
	(b)	Explain four differences between cellulosic and protein fibres.	(8 marks)

(c) Illustrate each of the following fabric structures: (i)  $\frac{2}{3}$  left hand twill; (4 marks)

(ii)  $\frac{1}{1}$  plain weave. (2 marks)

SECTION B: CLOTHING CONSTRUCTION I (40 marks)

Answer any TWO questions from this section of the s

(b) Explain three advantages of separate facings. (6 marks)

Outline four ways of decorating a yoke.

(c) Outline four characteristics of correct quality buttonholes.

- Same Sized as a button - Well positioned (4 marks)

(d) Highlight six aims of lining a garment. (6 marks)

7. (a) Explain three ways of decorating seams. Wing Pinking (6 marks)

(b) Briefly explain four factors to consider when selecting needles for machine stitching.

(6 marks)

(c) Explain four ways of reinforcing a curved seam. (8 marks)

8. (a) Explain three functions of trimmings. (6 marks)

(b) Explain two ways of ensuring accurate fitting of garment parts during sewing.

(4 marks)

(4 marks)

(c) Outline the procedure for making an inseam pocket. (6 marks)

(d) Outline four advantages of hand stitches. (4 marks)

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(a)