2803/102
TEXTILE SCIENCE I AND
CLOTHING CONSTRUCTION I THEORY
June/July 2020
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 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 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.

SECTION A: TEXTILE SCIENCE I (60 marks)

Answer any THREE questions from this section.

1.	(a)	Explain three factors which determine the properties of fibres.	(6 marks)
	(b)	Describe each of the following types of yarns:	
		(i) core spun; (ii) slub.	(2 marks) (2 marks)
	(c)	Outline five effects of high twist on cotton yarns.	(5 marks)
	(d)	Identify five end uses of wool fibres.	(5 marks)
2,	(a)	(i) Outline four shortcomings of chemical tests in fibre identification.	(4 marks)
		(ii) Highlight two objectives of the fabric chemical test.	(2 marks)
	(b)	(i) Outline four uses of fancy yarns.	(4 marks)
		(ii) Highlight four advantages of dyed yarns.	(4 marks)
	(c)	Explain three causes of fabric shrinkage.	(6 marks)
3.	(a)	Describe each of the following processes:	
		(i) singeing;	(2 marks)
		(ii) desizing;	(2 marks)
		(iii) dyeing.	(2 marks)
	(b)	Explain five factors which contribute to a correctly dyed fabric.	(10 marks)
	(c)	Outline four characteristics of lace fabrics.	(4 marks)
4.	(a)	Identify five uses of threads.	(5 marks)
	(b)	Explain four causes of yarn defects.	(8 marks)
	(c)	Outline three ways of inserting weft yarns during fabric construction.	SE S
			(3 marks)
	(d)	Explain two factors which determine the covering power of a fabric.	(4 marks)
5.	(a)	Highlight four characteristics of satin fabrics.	(4 marks)
	(b)	Outline four types of temporary finishes in fabrics.	(4 marks)
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(c)	Ехрі	ain three reasons for the high cost of silk fibres.	(6 marks
(d)	(i)	Describe three characteristics of batik fabrics.	(3 marks
	(ii)	Identify three tools required in a batik process.	(3 marks

SECTION B: CLOTHING CONSTRUCTION 1 (40 marks)

Answer any TWO questions from this section.

6.	(a)	Outline five areas where elastic can be applied on a garment.	(5 marks)	
	(b)	Highlight five situations in garment making when hand stitches may be ne	cessary.	
			(5 marks)	
	-> (c)	Outline five ways of finishing the hem of a sports trouser.	(5 marks)	
	(d) Identify five types of infections a First-Aider can easily contract during			
		Office	(5 marks)	
7.	(a)	Outline three workshop conditions which can contribute to poor quality of garments.		
			(6 marks)	
	(b)	Explain four uses of trimmings on a garment.	(8 marks)	
	(c)	Explain three factors which govern the choice of pockets.	(6 marks)	
8.	(a)	Explain five factors which determine the choice of seams for garments.	(10 marks)	
	(b)	Highlight five causes of bobbin thread breakage.	(5 marks)	
	(c)	Outline five factors to consider when choosing fasteners.	(5 marks)	

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