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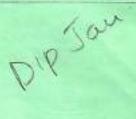
2803/102

TEXTILE SCIENCE I AND CLOTHING CONSTRUCTION I THEORY

Oct/Nov. 2015 Time: 3 hours Candidate's Signature

Date





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

Write your name and index number in the spaces provided above.

Sign and write the date of examination in the spaces provided above.

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 spaces provided in this question paper.

Maximum marks for each part of a question are as shown.

Do NOT remove any pages from this booklet.

Candidates should answer the questions in English.

For Examiner's Use Only

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TOTAL SCORE

This paper consists of 20 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 1 (60 marks)



Answer any THREE questions from this section.

1.	√(a)	Describe the following processes in wool fibre production:	
		(i) shearing;	
		(ii) grading;	
		(iii) scouring;	
		(iv) carbonizing;	
		(v) carding.	
			(10 marks)
	√(b)	Outline the behaviour of silk fibres in a burning test.	(5 marks)
	(c)	Outline five effects of mercerizing cotton fibres.	(5 marks)
2.	(a)	Explain four factors that affect the quality of cotton fibres.	(8 marks)
	(b)	Outline three objectives for each of the following:	
		(i) bale opening;	(3 marks)
		(ii) combing.	(3 marks)
	(c)	Highlight four characteristics of cellulosic fibres.	(6 marks)
3.	(a)	Outline four advantages and four disadvantages of open-end spinning.	(8 marks)
	(b)	Describe the following wool fibre parts citing a function in each case:	
		(i) cuticle;	(3 marks)
		(ii) medulla;	(3 marks)
	72	(iii) cortex.	(3 marks)
	(c)	Describe novelty yarns citing an end use.	(3 marks)

4.	(a)	(i) Outline four advantages and four disadvantages of laminating fabrics.				
			(8 marks)			
		(ii) Describe two ways of producing bonded fabrics.	(4 marks)			
	(b)	Explain the following terms as used in colouration:				
		(i) pigment;	(2 marks)			
		(ii) tendering;	(2 marks)			
		(iii) frosting.	(2 marks)			
	(c)	Describe the cross dyeing process.	(2 marks)			
5.	(a)	Explain two shortcomings of batik colouration.	(4 marks)			
	(b)	Describe the following processes:				
		(i) beetling:	(3 marks)			
		(ii) decatizing.	(4 marks)			
	(c)	Outline three characteristics of each of the following fabrics:				
		(i) waterproof;	(3 marks)			
		(ii) water-resistant.	(3 marks)			
	(d)	Identify three advantages of sulphur dyes.	(3 marks)			
		SECTION B: CLOTHING CONSTRUCTION I (40 marks)				
		Answer any TWO questions from this section.				
6.	(a)	(i) Describe three categories of facings.	(6 marks)			
		(ii) Explain three functions of facings.	(6 marks)			
	(b)	Explain four techniques of ensuring accuracy when machine seaming. — Tacking foot contes — Presser foot contes — balance	(8 marks)			

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7.	(a)	Outline the procedure for constructing a faced slit opening.	(6 marks)
odgestubch	(b)	Explain two ways of decorating collars.	(4 marks)
binding Contract Pabric	(c)	Explain two circumstances when each of the following is suitable for use during clothing construction:	ng
rtopstitch		(i) slip hemming:	(4 marks)
Frills		(ii) machine hemming.	(4 marks)
+ Rubbou +Coval	(d)	Outline two advantages of an electric iron.	(2 marks)
8.	(a)	Outline the procedure for using a fire extinguisher.	(4 marks)
	(b)	(i) Explain the term 'mitre' as used in garment construction.	(2 marks)
		(ii) Outline two occassions when it may be necessary to mitre in garment construction.	(2 marks)
	(c)	Outline the general procedure for making a trouser.	(12 marks)
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