TEXTILES. DEPT

2803/102 TEXTILE SCIENCE I AND CLOTHING CONSTRUCTION I June/July 2016 Time: 3 hours





THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN FASHION DESIGN AND CLOTHING TECHNOLOGY

MODULE I

TEXTILE SCIENCE I AND CLOTHING CONSTRUCTION I

3 hours

INSTRUCTIONS TO CANDIDATES

You should have an answer booklet for this examination paper.

This 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 shown.

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.

SECTION A: TEXTILE SCIENCE I (60 marks)

Answer any THREE questions from this section.

	1870	Answer any THREE questions from this section.					
1.	(a) (Identify the part of the plant from which each of the following fibres are obtained in the state of the plant from which each of the following fibres are obtained in the state of the plant from which each of the following fibres are obtained in the state of the plant from which each of the following fibres are obtained in the state of the plant from which each of the following fibres are obtained in the state of the plant from which each of the following fibres are obtained in the state of the state of the plant from which each of the following fibres are obtained in the state of the	ained:				
		(i) linen; - Vous de l'arre	(1 mark)				
		(ii) hemp;	(I mark)				
		(iii) coir;	(1 mark)				
		(iv) cotton.	(1 mark)				
		(iv) conon.	(1 thatk)				
	(b)	(b) Outline three industrial uses of each of the following fibres:					
		(i) sisal;	(3 marks)				
		(ii) linen.	(3 marks)				
			No.				
	(c)	Explain five desirable qualities of sewing threads.	(10 marks)				
2,	(a)	State seven advantages of linen fibres.	(7 marks)				
	(b)	Distinguish between 'warp yarn' and 'weft yarn'.	(4 marks)				
	(c)	Explain the following cotton fibre production processes citing the resulting p	product in				
	100	each case:					
			(3 marks)				
		(i) ginning;	(3 marks)				
		(ii) carding;					
		(iii) drawing.	(3 marks)				
3.	(a)	Describe each of the following yarn types:					
d.	(4)	Describe cach of the following just speed					
		(i) ply;	(1 mark)				
	1	(ii) cable.	(1 mark)				
- 1			- Charles				
	(b)	Explain four precautions to observe when conducting a chemical test for fib	re				
	200	identification.	(8 marks)				
	(c)	(i) With the aid of clear illustrations, distinguish between the appearance	e of a				
		'3/1 left hand' and '3/1 right hand' twill.	(6 marks)				
		(ii) State four characteristics of twill fabrics with long floats.	(4 marks)				
4,	(a)	Describe each of the following fabric finishes:					
		(i) glazing; (ii) embossing;					
		(i) glazing; 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(2 marks)				
		(ii) embossing;	(2 marks)				
		(iii) fulling.	(2 marks)				
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	(b)	(i)	Explain two reasons for colouring fabrics.	(4 marks)	
		(ii)	Identify two situations that may necessitate fabric dyeing rather than printing.		
			Hx line - Mave	(2 marks)	
	(c)	(i)	Outline four advantages of starching fabrics.	(4 marks)	
		(ii)	State four limitations of napped fabrics.	(4 marks)	
(S.)	(a)	Expl			
		(i)	shoddy wool; - Share tend	(2 marks)	
		(ii)	virgin wool:- Not 1444	(2 marks)	
		(iii)	garnetting Freds wood tone and	(2 marks)	
			reculed wood star reducing in the used unused	(e-murks)	
	(b)	(iii) garnetting - took took took took (2 marks) recycled took reducing the reducing the used to the rest of unused Explain the following fabric colouration terms:			
		(i)	off shade;	(2 marks)	
		(ii)	tender spot;	(2 marks)	
		(iii)	reactive dyes.	(2 marks)	
	(c)	Illust			
		(i)	wool; - Tunder microsco	(2 marks)	
		(ii)	linen	(2 marks)	
	(d)	Expla			
		(i)	laddering;	(2 marks)	
		(ii)	dimensional stability.	(2 marks)	

SECTION B: CLOTHING CONSTRUCTION I (40 marks)

Answer any TWO questions from this section.

6.	(a)	Highlight six characteristics of well made lockstitches in a seam.	(6 marks)
	(b)	With the aid of illustrations, explain the procedure for applying a facing	on a neckline.
			(14 marks)

7.	(a)	Highlight four care procedures for each of the following:			
		(i)	cutting shears; And Andrews	(A montes)	
		(ii)	electric iron.	(4 marks) (4 marks)	
	(b)	State			
	18.				
		(i)	balance wheel; - diet and the Madane	(1 mark)	
		(ii)	spool pin; hold he position on the seal direct	(1 mark)	
		(iii)	feed dog Food material to the Madeine.	(1 mark)	
	(c)	With	the aid of illustrations, explain the procedure for inserting a raglan	sleeve.	
				(9 marks)	
8.	(a)	High			
		(i)	tailor's ham;	(1 ½ marks)	
		(ii)	sleeve board.	(1 ½ marks)	
	(b)	Outli	ne four measures one should take to prevent an electric shock.	(4 marks)	
	(c)	(i)	Outline the procedure for making an inseam pocket.	(7 marks)	
		(ii)	Identify six sewing machine attachments.		
		(11)	(2)	(6 marks)	
			pressure segulation cut a present se	desc	
			pressure from lever Tack		
			Negally Change Comp		
			190 King		
			Spelpin		

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