2803/102 TEXTILE SCIENCE I AND CLOTHING CONSTRUCTION I THEORY Oct./Nov. 2018

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 indicated.

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.

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1.	(a)	Explain two objectives of each of the following fabric processes:	
		(i) shearing;	(4 marks)
		(ii) degumming.	(4 marks)
	(b)	Outline four suitable properties in each of the following fibre types:	
		(i) linen;	(4 marks)
		Outline four effects of twisting yarns.	(4 marks)
	(c)	Outline four effects of twisting yarns.	(4 marks)
2.	(a)	Explain each of the following terms as used in yarn production:	
		(i) drawing;	(2 marks)
		(ii) blending;	(2 marks)
		(iii) combing:	(2 marks)
		(iv) carding.	(2 marks)
101	(b)	Explain two objectives of grading natural fibres.	(4 marks)
	(c)	Highlight four characteristics of mercerised fabrics.	(6 marks)
	(d)	Explain the term 'wet processing' and cite an example.	(2 marks)
3.	(a)	Describe three ways of strengthening natural yarns.	(6 marks)
	(b)	Outline three factors which determine the choice of a fabric finish.	(6 marks)
	(c)	Explain four causes of faults during woven fabric formation.	(8 marks)
4.	(a)	Explain three objectives of blending fibres.	(6 marks)
	(b)	(i) Outline two advantages and two disadvantages of dyed yarns in fa	
		construction.	(8 marks)
		(ii) Describe two characteristics of correctly dyed fabric.	(2 marks)
	(c)	Illustrate the structure of a 2/2 left hand twill weave.	(4 marks)

2803/102 Oct./Nov. 2018 5. (a) Outline five differences in a burning test between cotton and wool. (5 marks) (b) Distinguish between the following: (i) a balanced plain weave and an unbalanced plain weave; (4 marks) (ii) warp faced twill and even sided twill. (4 marks) Identify the part of the plant from which each of the following fibres are obtained: (c) cotton; CPPc (i) (1 mark) linen; Bast / stem (ii) (1 mark) coir; - thut (iii) (1 mark) sisal; \tof (iv) (1 mark) hemp. _ \varta (v) (1 mark) (d) Identify the two categories of wool fibres. (2 marks) SECTION B: CLOTHING CONSTRUCTION I (40 marks)

Answer any TWO questions from this section.

- (a) Outline five possible effects of accidents in a clothing workshop. (5 marks)
 - (b) Identify six ways of finishing an armhole. (6 marks)
 - (c) Outline the procedure for making a culotte with the following details:
 - (i) side pockets;
 - (ii) back yoke;
 - (iii) elasticated waistband;
 - (iv) machined hem.

(9 marks)

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1.	(a)	Highlight two objectives of each of the following:	
		(i) under stitching;	(2 marks)
		(ii) top stitching;	(2 marks)
		(iii) padding.	(2 marks)
	(b)	Highlight four factors to consider when choosing a collar.	(6 marks)
	(c)	Identify four ways of decorating a shirt collar.	(4 marks)
	(d)	Outline four characteristics of a suitable button fastener.	(4 marks)
8.	(a)	Explain two factors which determine the strength of a seam.	(4 marks)
	(b)	Explain three benefits of ensuring correct machine adjustment.	(6 marks)
	(c)	Identify four areas where control of fullness can be applied in a garment.	(4 marks)
	(d)	Outline two functions of each of the following:	
		(i) pinking shears;	(2 marks)
		(ii) bodkin;	(2 marks)
		(iii) fasteners.	(2 marks)

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