1801/104 TEXTILE MATERIAL KNOWLEDGE AND FABRIC COLOURATION THEORY June/July 2019

Time: 3 hours



## THE KENYA NATIONAL EXAMINATIONS COUNCIL

## CRAFT CERTIFICATE IN FASHION DESIGN AND GARMENT MAKING TECHNOLOGY

## **MODULE I**

TEXTILE MATERIAL KNOWLEDGE AND FABRIC COLOURATION THEORY

3 hours

## INSTRUCTIONS TO CANDIDATES

This paper consists of SIX questions.

Answer question I which is COMPULSORY and any other FOUR questions 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 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.

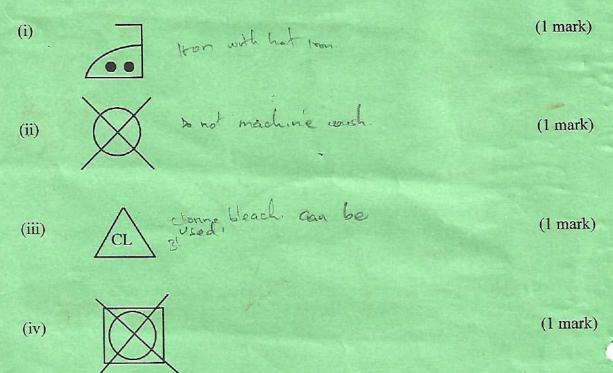
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Turn over

1.	(a)	Define	the term 'printing'.	(2 marks)
	(b)	Descri	be each of the following printed fabric faults:	
		(i)	bleeding; (1	$\frac{1}{2}$ marks)
		(ii)	crocking. (1	$\frac{1}{2}$ marks)
	(c)	Explai	n the following tie-and dye procedures:	
		(i)	wetting;	(2 marks)
		(ii)	fixing:	(2 marks)
		(iii)	dipping.	(2 marks)
	(d)	(i)	Identify three sources of natural dyes.	(3 marks)
		(ii)	Explain three objectives of dyeing fabrics.	(6 marks)
2.	(a)	Highli	ght six advantages of nylon fabrics.	(6 marks)
	(b)	Explai	n each of the following wool fabric production processes:	
		(i)	shearing;	(2 marks)
		(ii)	sorting.	(2 marks)
		(iii)	scouring.	(2 marks)
	(c)	(c) State the effect of concentrated sulphuric acid on each of the following		
		(i)	linen;	(1 mark)
		(ii)	polyester;	(1 mark)
		(iii)	nylon.	(1 mark)
	(d)	(i)	With the aid of an illustration, explain the structure of a cotton thread.	(3 marks)
36		(ii)	Identify two types of synthetic threads.	(2 marks)

3.	(a)	Identify five types of fancy yarns.	(5 marks)
	(b)	Highlight five contributions of yarn crimp in fabrics.	(5 marks)
	(c)	Describe the burning tests for each of the following fabrics:	
		(i) viscose.	(3 marks)
		(ii) nylon.	(3 marks)
	(d)	Outline four reasons for plying yarns.	(4 marks)
4.	(a)	(i) Outline five characteristics of pile woven fabrics.	(5 marks)
		(ii) Highlight four end uses of pile fabrics.	(4 marks)
	(b)	Using diagrams, illustrate each of the following fabric structures:	
<u></u>		(i) $\frac{2}{2}$ right hand twill.	(4 marks)
		(ii) ½ plain weave.	(3 marks)
	(c)	(i) Explain the term 'stain' in fabrics.	(2 marks)
		(i) Explain the term 'stain' in fabrics.  (ii) Cite two shortcomings of stains in fabrics.  Outline five advantages of and five disadvantages of acetate fabrics	(2 marks)
5.	(a)	Outline five advantages of and five disadvantages of acetate fabrics.	(10 marks)
	(b)	(i) Explain the term 'finish' as used in fabrics.	(2 marks)
		(ii) Highlight four objectives of finishing fabrics.	(4 marks)
peli	(c)	(i) Explain the term 'float' as used in knitted fabrics.	(2 marks)
) e	ege.	(ii) State one advantage and one disadvantage of floats in knitted fabrics.	
		Describe the viscose fibre production process. Workling package in	(2 marks)
6.	(a)	Describe the viscose fibre production process. Macking packing	(10 marks)
	(b)	Explain three precautions to observe when washing tri-acetate fabrics.	(6 marks)
		Do not machine wash. Carril	

(c) Identify each of the following fabric care label symbols.



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