1801/104 TEXTILE MATERIAL KNOWLEDGE AND FABRIC COLOURATION THEORY June/July 2020

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 1 (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 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.

1.	(a)	Explain each of the following colour attributes:	
		(i) value; (ii) intensity.	(2 marks) (2 marks)
	(b)	Outline two characteristics of printed fabrics.	(2 marks)
	(c)	Explain three factors to consider when selecting fabric dyes.	(6 marks)
	(d)	Outline five safety precautions to observe when dyeing fabrics.	(5 marks)
	(e)	Highlight two ways of removing wax from the fabric during batik.	(3 marks)
2.	(a)	Describe each of the following cotton yarn production processes:	
		(i) combing; (ii) drawing; (iii) ginning.	(3 marks) (3 marks) (2 marks)
	(b)	Highlight six properties of viscose fabrics.	(6 marks)
	(c)	(i) Explain the term 'weaving'.	(2 marks)
		(ii) Illustrate the structure of a $\frac{2}{3}$ left hand twill.	(4 marks)
3.	(a)	(i) Describe the burning test for an acrylic fabric.	(3 marks)
		(ii) Identify five uses of acrylics in household furnishing.	(5 marks)
	(b)	Explain two factors which make woollen fabrics warm to wear.	(4 marks)
	(c)	(i) Outline five shortcomings of nylon fabrics.	(5 marks)
		(ii) State <b>three</b> objectives of stretching nylon fibres during production.	(3 marks)
4.	(a)	Explain the following textile fibre properties, citing one advantage of each:	
		(i) thermoplasticity; (ii) elasticity.	(3 marks) (3 marks)
	(b)	Identify six household uses of felts.	(6 marks)
	(c)	Describe each of the following types of fabric finishes:	
		(i) delustering; (ii) bacteriostatic; (iii) napping.	(2 marks) (2 marks) (2 marks)

	(d)	Outline two shortcomings of drying cotton articles in the sun.	(2 marks)
5.	(a)	Explain three desirable qualities of a fabric suitable for a sleeping gown.	(6 marks)
	(b)	Describe each of the following weft yarn preparatory processes for weaving. objective of each process:	Cite one
		(i) winding; (ii) steaming.	(3 marks) (2 marks)
	(c)	Explain the term 'singeing' as used in fabric preparation, citing the objective process.	of this (3 marks)
	(d)	List six uses of linen threads.	(6 marks)
6.	(a)	(i) Describe the life cycle of a silk moth.	(5 marks)
		(ii) Highlight four factors that make silk fabrics suitable for clothing.	(6 marks)
	(b)	With the aid of illustrations, describe the microscopic appearance of each of t following fibres:	he
		(i) viscose; (ii) polyester.	(3 marks) (3 marks)
	(c)	Identify each of the following care label information symbols:	(3 marks)
		(i)	
		(ii)	
		(iii)	

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