1801/104 TEXTILE MATERIAL KNOWLEDGE AND FABRIC COLOURATION THEORY Oct./Nov. 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 ONE 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 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)	Illustrat	te a colour wheel to show the primary and secondary colours.	(6 marks)		
	(b)	Describe each of the following techniques of tie-and-die:				
	6	(i)	binding;	(2 marks)		
		(ii)	tritiking.	(2 marks)		
	(c)	Explain	n two objectives of washing fabrics before dyeing.	(4 marks)		
	(d)	Describe each of the following methods of printing:				
		(i)	discharge;	(3 marks)		
		(ii)	block.	(3 marks)		
2.	(a)	Categorize each of the following fibre types either as 'cellulosic' or 'proteinic'.				
		{Cash	mere, Acetate, Silk, Flax, Fleece, Aplaca, Jute, Sisal}	(8 marks)		
	(b)	Describe the feeling test for each of the following fabrics:				
		(i)	Viscose;	(1 mark)		
		(ii)	Wool.	(1 mark)		
	(c)	(i)	Highlight six advantages of cotton fabrics.	(6 marks)		
		(ii)	Outline two negative effects of sunlight on cotton fabrics.	(2 marks)		
		(iii)	With the aid of an illustration, describe the longitudinal microscop cotton fibre.	oic view of a (2 marks)		
3.	(a)	(i)	Highlight five objectives of crimping polyester fibres during produ	uction. (5 marks)		
		(ii)	Explain the meaning of the term 'drawing-out' in polyester fibre p citing two of its objectives.	oroduction, (4 marks)		
	(b)	Explain three safety precautions to observe when conducting a textile fibre				
	(c)	Outl	ine three advantages and two disadvantages of satin fabrics.	(5 marks)		

4.	(a)	Descr	ibe the linen fibre production process.	(10 marks)	
	(b)	Identify five end uses of felts.			
	(c)	Outline five limitations of wool fabrics.			
5.	(a)	Highlight two objectives of each of the following cotton fabric production pro			
		(i)	bleaching;	(2 marks)	
		(ii)	sizing;	(2 marks)	
		(iii)	scouring.	(2 marks)	
	(b)	State two benefits of dry cleaning fabrics.			
	(c)	With the aid of illustrations, identify four care label information symbols for ironing.			
	(d)	Expla	in the functions of each of the following in a weaving operation. Reed.	(2 marks)	
		(ii)	Warp beam.	(2 marks)	
		(iii)	Shuttle.	(2 marks)	
6.	(a)	(i)	Describe the term 'spun thread'.	(2 marks)	
		(ii)	Identify four sewing thread defects.	(4 marks)	
	(b)	Describe each of the following fabric finishes:			
		(i)	brushing;	(2 marks)	
		(ii)	antistatic;	(2 marks)	
		(iii)	calendering;	(2 marks)	
		(iv)	tentering.	(2 marks)	
	(c)	Illustrate each of the following woven fabric structures.			
		(i)	$\frac{2}{2}$ plain weave.	(2 marks)	
		(ii)	$\frac{2}{1}$ right hand twill.	(4 marks)	

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