1801/104 TEXTILE MATERIAL KNOWLEDGE AND FABRIC COLOURATION THEORY Oct./Nov. 2018

Time: 3 hours





THE KENYA NATIONAL EXAMINATIONS COUNCIL

CRAFT CERTIFICATE IN FASHION DESIGN AND GARMENT MAKING TECHNOLOGY

MODULEI

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.

Candidates should answer all 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.

Answer question 1 (compulsory) and any other FOUR questions.

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1.	(a)	Outli	ne four tie-and-dye finishing procedures.	(4 marks)		
	(b)	Identify the colours that complement each of the following on a colour wheel:				
		(i)	Red;	(1 mark)		
		(ii)	Red-purple;	(1 mark)		
		(iii)	Purple.	(1 mark)		
	(c)	Expla	ain three safety precautions to observe during printing.	(6 marks)		
	(d)	(i)	Highlight four factors that influence the choice of dyes.	(4 marks)		
		(ii)	Outline three conditions for achieving good dyeing results.	(3 mar)		
2.	(a)	Highl	light six disadvantages of cotton fabrics.	(6 marks)		
	(b)	(i)	Outline two limitations and two benefits of using hot water during			
				(4 marks)		
		(ii)	Identify four water extraction methods in fabrics during laundry.	(4 marks)		
	(c)	Explain each of the following terms in textile fibres:				
		(i)	flexibility;	$(1\frac{1}{2} \text{ marks})$		
		(ii)	lustre;	$(1\frac{1}{2} \text{ marks})$		
		(iii)	hydrophobia;	$(1\frac{1}{2} \text{ marks})$		
		(iv)	elasticity.	$(1\frac{1}{2} \text{ marks})$		
3.	(a)	Highlight six disadvantages of linen fabric. (6 ma				
	(b)	Describe the burning test for each of the following fabrics:				
		(i) (ii)	acetate; silk.	(4 marks) (4 marks)		
	(c)	(i)	Explain the term 'tufted fabric'.	(2 marks)		
		(ii)	Identify four uses of tufted fabrics.	(4 marks)		

A .	(a)	Explain the following processes in linen yarn production:				
		(i)	ripping;	(2 marks)		
		(ii)	well hackling;	(2 marks)		
		(iii)	scutching.	(2 marks)		
	(b)	Expla	ation test:			
		(i) (ii)	microscope; burner.	(2 marks) (2 marks)		
	(c)	Expla	in three factors that influence the drapeability of a fabric.	(6 marks)		
	(d)	Identi	fy four types of filament threads.	(4 marks)		
\$.	(a)	State two effects of the following finishes, citing the fabric involved in each case:				
		(i)	beetling;	(3 marks)		
		(ii)	fulling;	(3 marks)		
		(iii)	mercerization.	(3 marks)		
	(b)	Illustr	rate the symbols for each of the following care label information:			
		(i)	dry flat;	(1 mark)		
		(ii)	drip dry;	(1 mark)		
		(iii)	Use chlorine bleach;	(1 mark)		
		(iv)	drycleanable in all solvents;	(1 mark)		
		(v)	do not wash.	(1 mark)		
	(c)	(i)	Illustrate the longitudinal and the cross-sectional microscopic v fibres.	views of linen (4 marks)		
		(ii)	Describe the longitudinal and cross-sectional microscopic appe	earance of a		

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cotton fibre.

(2 marks)

V6. Identify the following woven fabric structures, citing the designation for each. (a) (i) (2 marks) (ii) (3 mark Explain six cotton fabric preparatory stages before processing.

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State three ways of identifying a printed fabric.

(12 marks)

(3 marks)

(b)

(c)