1801/104 .
TEXTILE MATERIAL KNOWLEDGE
AND FABRIC COLOURATION THEORY
June/July 2016
Time: 3 hours

HOD CLOTHING AND TEXTILE
RAMOGI INSTITUTE OF ADVANCED TECHNOLOGY
P. O. BOX 1738 - 40100, KISUMU
DATE:



THE KENYA NATIONAL EXAMINATIONS COUNCIL

CRAFT CERTIFICATE IN FASHION DESIGN AND GARMENT MARKING 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.

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.

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Question 1 is compulsory

1.	(a)	(i) State six methods of printing.	(3 marks)
		(ii) Explain the term 'off register' as used in printing.	(2 marks)
	(b)	State the role of each of the following in a tie-and-dye process.	63
7		(i) tong;	(1 mark)
		(ii) mask.	(1 mark)
	(c)	Explain four factors to consider when selecting dyes.	(8 marks)
	(d)	Highlight five precautions to observe during the tie and dye process.	(5 marks)
2.	(a)	Explain the term 'mixing' in fabrics, citing three of its objectives.	(5 marks)
	(b)	Highlight four limitations of pile fabrics.	(4 marks)
	(c)	Define the following cotton fabric production processes citing two objectives process.	of each
		(i) combing;	(3 marks)
		(ii) scouring;	(3 marks)
		(iii) drafting.	(3 marks)
	(d)	State two categories of chemical tests done on fibres.	(2 marks)
3.	(a)	Highlight six advantages of polyester fabrics.	(6 marks)
	(b)	Distinguish between each of the following:	
		(i) Velvet and velveteen. readle loops its own thread & differs from frequency.	(4 marks)
		(ii) Wert and warp knitting.	(4 marks)
	(c)	Outline three industrial uses of each of the following:	
		(i) linen;	(3 marks)
		(ii) silk.	(3 marks)

4.	(a)	Highlight two objectives of each of the following fabric finishes:	
		(i) glazing; - Calendaring Manator the which starch sport over (ii) brushing; removes that theres from tabus Surface & Smooth low pile sweater	hot Steel rollors (2 marks)
		(ii) brushing; removes Short places from tabuc surface &	producesa
		(11) brushing, smooth low pile swifale	(2 marks)
		(iii) bleaching; - All natural colour a staining one rem - reducing a gents can either be oxid (iv) starching.	(2 marks)
		(iv) starching. Or reducing agents	(2 marks)
	(b)	Outline four sewing thread defects.	(4 marks)
	(c)	Describe the feeling test for each of the following fibres.	
		(i) wool;	(2 marks)
		(ii) viscose;	(2 marks)
		(iii) linen.	(2 marks)
	(d)	State two advantages of elasticity in yarns.	(2 marks)
5.	(a)	Explain two disadvantages of a cotton/polyester blend.	(3 marks)
	(b)	Outline six advantages of linen fabrics.	(6 marks)
	(c)	Explain three precautions to observe when storing viscose fabrics.	(6 marks)
	(d)	Identify the following care labels symbols.	
		(i) daying	(1 mark)
		(ii) Ironing	(1 mark)
		(iii) washing	(1 mark)
		(iv) (a) dry cleaning in all solvents	(2 mark)
6.	(a)	Illustrate the structure of each of the following weaves:	
		(i) 3/3 basket	(3 marks)
		(ii) 2/1 left hand twill.	(4 marks)

(b) Show the cross-sectional and the longitudinal microscopic views of each of the following fibres.

(i) nylon; (2½ marks)

(ii) acetate.

(2½ marks)

(b) State five desirable qualities for a curtain fabric.

(5 marks)

THIS IS THE LAST PRINTED PAGE.

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