Name TEXTILE DEPT	Index No//
2803/102 TEXTILE SCIENCE I AND CLOTHING	Candidate's Signature
CONSTRUCTION LTHEORY Oct./Nov. 2014 / AT	Date
Time: 3 hours and a leather	HEAD OF DEPARTMENT GLOTHING & TEALLES
Box 17:3. W	GEGITAMEN TEXTIFES

THE KENYA NATIONAL EXAMINATIONS COUNCIL.

DIPLOMA IN FASHION DESIGN AND CLOTHING TECHNOLOGY MODULE I

TEXTILE SCIENCE I AND CLOTHING CONSTRUCTION I THEORY

3 hours

INSTRUCTIONS TO CANDIDATES

Write your name and index number in the spaces provided above.

Sign and write the date of examination in the spaces provided above.

This paper consists of EIGHT questions in TWO sections; A and B.

Answer any THREE questions from section A and any TWO questions from section B in the spaces provided in this question paper.

Maximum marks for each part of a question are as shown.

Candidates should answer the questions in English.

For Examiner's Use Only

Section	Question	Maximum Score	Candidate's Score
		20	No SHAN
A		20	
		20	
В		20	
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	тот	AL SCORE	-

This paper consists of 20 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

SECTION A: TEXTILE SCIENCE 1 (60 marks)

Answer any THREE questions from this section.

Explain five preparatory processes undertaken before dyeing a loom state cotton i

			60
	(b)	Describe the following citing one use in each case: PS.C	
		(i) cord yarns;	(2)
		(ii) textured yarns ;	(2)
		(iii) fancy yarns.	(2)
	(c)	Outline four objectives of 'drawing' in yarn formation.	(4)
2.	(a)	Outline the procedure for carrying out the 'tie and dye' process.	
	(b)	Identify five causes of defects during the following processes:	(61
		(i) weaving;	(5)
		(ii) dyeing.	(5)
	(c)	Outline four characteristics of a textile fabric suitable for a doormat.	(41
3.	(a)	Distinguish between 'direct' and 'indirect' yarn numbering systems.	(41
	(b)	Explain the following tie and dye techniques:	
		(i) tritiking;	(2 r
		(ii) marbling;	(2 1
		(iii) ruching.	(21
	(c)	Explain two objectives for each of the following fabric processes:	
		(i) sizing;	(41
		(ii) shearing.	(41
	(d)	Highlight two behaviour characteristics of protein fibres in a burning test.	(21

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1.

(a)

2

	4.	(a)	Explain two causes of each of the following fibre properties:	
			(i) electrostaticity;	(4 marks)
bric. narks)			(ii) absorbency;	(4 marks)
			(iii) cover factor.	(4 marks)
harks)		(b)	Explain the following terms in relation to dyeing:	
arks)			(i) fastness;	(2 marks)
arks)			(ii) absorption,	(2 marks)
narks)		(c)	Outline two advantages and two disadvantages of batik as a colour appli-	cation method. (4 marks)
arks)	5,	(a)	Explain two factors that contribute to each of the following properties in fabric:	a woven
arks)			(i) strength;	(4 marks)
uarks)			(ii) dimensional stability.	(4 marks)
mrks)		(b)	Outline two advantages of fibre dyeing.	(4 marks)
arks)		(c)	Explain four objectives of fabric finishing.	(8 marks)
			SECTION B: CLOTHING CONSTRUCTION I (40 marks)	
arks)			Answer any TWO questions from this section.	
ks)	6.	(a)	Explain the following processes:	
ks)			(i) fusing;	(2 marks)
			(ii) layering;	(2 marks)
(s)			(iii) sink stitching.	(2 marks)
cs)		(b)	Highlight two advantages of self neatened seams.	(4 marks)
s)		(e)	(i) Highlight two objectives of lubricating sewing machines.	(4 marks)
			Describe the 'manual' and 'automatic' methods of lubricating material one advantage in each case.	
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		or they four safety measures to observe when using a sewing machine.
7.	(a)	Outline four safety measures to observe when using a sewing machine.
	(b)	Describe the two main types of waistbands.
	(0)	Outline the assembly procedure for a blouse with the following features:
	(c)	Outline the assembly procedure for a bloase will
	12.00	1 alia contring
		The state of the s
		1 1haloe
		(iii) bias bound animores, (iv) faced hem;
		(v) darts.
	(d)	Identify three objectives of finishing a garment.
	100	
8.	(a)	Explain three ways of reinforcing a pleat.
	100men	Distinguish between the following:
	(b)	
		(i) inserted pockets and applied pockets;
		(ii) interfacing and facing.
	(c)	Outline the procedure for making a french seam.
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