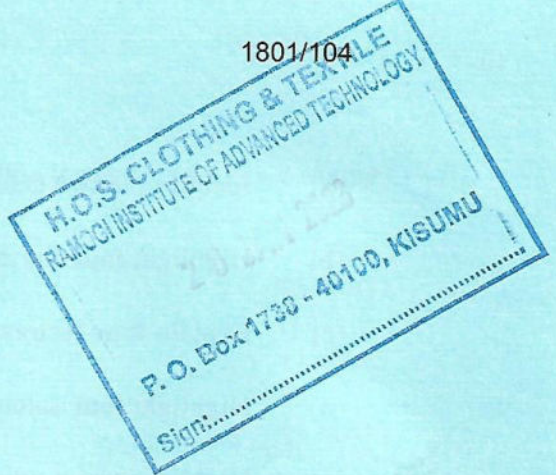


1801/104  
TEXTILE MATERIAL KNOWLEDGE  
AND FABRIC COLOURATION THEORY  
Oct. / Nov. 2022  
Time: 3 hours



2

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

easytv.com

INSTRUCTIONS TO CANDIDATES

*This paper consists of SIX questions.  
Answer question ONE (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.





- 745
1. (a) Identify the **two** colours which mix to form 'orange'. (2 marks)
  - (b) Highlight **four** finishing procedures applicable during a printing process. (4 marks)
  - (c) Explain **four** factors that determine the dye-ability of a fabric. (8 marks)
  - (d) Highlight **four** safety measures to observe when printing. (6 marks)
  2. (a) Highlight **seven** properties of polyester fabrics. (7 marks)
  - (b) Explain the burning test for a cotton fabric. (3 marks)
  - (c) Explain each of the following fabric cleaning processes:
    - (i) washing; (2 marks)
    - (ii) brushing; (2 marks)
    - (iii) dry cleaning; (2 marks)
    - (iv) spin drying; (2 marks)
    - (v) rinsing. (2 marks)
  3. (a) Outline **six** advantages and **four** disadvantages of acetate fabrics. (10 marks)
  - (b) Illustrate each of the following woven fabric structures:
    - (i)  $\frac{1}{3}$  left hand twill; (4 marks)
    - (ii)  $\frac{1}{1}$  plain weave. (2 marks)
  - (c) Outline **four** reasons for plying yarns. (4 marks)
  4. (a) Identify **four** methods of fabric formation other than weaving. (4 marks)
  - (b) Explain **five** factors that influence the choice of a fabric finish. (10 marks)
  - (c) Explain each of the following linen yarn production processes:
    - (i) retting; (2 marks)
    - (ii) scutching; (2 marks)
    - (iii) hackling. (2 marks)
  5. (a) Explain **four** precautions to observe when bleaching fabrics. (8 marks)
  - (b) Highlight **four** advantages of knitted fabrics. (4 marks)
  - (c) State the **four** care label instructions for ironing and in each case, illustrate the symbol. (8 marks)





6. (a) Identify the parts of a loom that facilitates each of the following processes in a weaving operation:
- (i) packaging of the woven fabric; (1 mark)
  - (ii) ferrying of the weft yarn; (1 mark)
  - (iii) beating-up; (1 mark)
  - (iv) shedding; (1 mark)
  - (v) releasing of the warps. (1 mark)
- (b) (i) Explain **two** weft yarn preparatory processes for weaving. (4 marks)
- (ii) Explain **two** factors that necessitate sizing of warp yarns. (4 marks)
- (c) State **seven** properties of nylon fabrics. (7 marks)

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