



MACHAKOS UNIVERSITY

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF FASHION DESIGN AND MARKETING

REGULAR UNIVERSITY EXAMINATIONS 2022/2023 ACADEMIC YEAR

**FIRST YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
IN FASHION DESIGN AND MARKETING**

HFM 100: INTRODUCTION TO TEXTILES

Date:

Time: 2 Hours

INSTRUCTIONS:

- i) This paper consists of **five questions**.*
- ii) Answer Question 1 and any other **two** questions.*
- iii) Question 1=30 marks*
- iv) Question 2 to 5=20 marks each*

Question One

- a) Define the following terms used in this course:
 - i. Fibre resiliency **(1mks)**
 - ii. Lap **(1mks)**
 - iii. Polymerization **(1mks)**
 - iv. Piece Dyeing **(1mks)**
 - v. Yarn count **(1mks)**
 - vi. Fabric finishing **(1mks)**

- b) Differentiate between:
 - i. Fibre and Fabric **(2mks)**
 - ii. Mixture and Blend **(2mks)**
 - iii. Noils and Tops **(2mks)**
 - iv. Right-hand twill and Left- hand twill **(2mks)**
 - v. Needle bonding and Stitch bonding **(2mks)**

- c) Explain four (4) characteristics of fabrics made through:
 - i. Sateen Weave **(2mks)**
 - ii. Knitting **(2mks)**
 - iii. Felting **(2mks)**

- d) Briefly explain 4 negative characteristics of:

- i. Cotton Fabric (2mks)
- ii. Acetate Rayon (2mks)
- iii. Glass Fibres (2mks)
- iv. Terylene Fibres (2mks)

Question Two

Discuss the preparatory processes that a fabric may be taken through before final finishing is done. (20mks)

Question Three

- a) What characteristics make Nylon yarns unpopular for making apparel fabrics? (7mks)
- b) Discuss the production and processing of nylon. (13mks)

Question Four

Discuss the various types of plies used in yarn construction, using illustrations to demonstrate your examples. (10mks)

Illustrate the classification of textile fibres, giving examples to support your answer. (10mks)

Question Five

Discuss the production and processing of linen fibres. (20 marks)