



# MACHAKOS UNIVERSITY

University Examinations for 2020/2021 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF FASHION DESIGN AND MARKETING

FIRST YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE IN FASHION DESIGN AND MARKETING

**HFM 100: INTRODUCTION TO TEXTILES**

**DATE: 23/2/2021**

**TIME: 8.30-10.30 AM**

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## INSTRUCTIONS:

This paper consists of five (5) questions.

Answer question **One (1)** and any other **Two (2)** questions in this paper

**Question 1 - 30 Marks**

**Question 2 -5 - 20 Marks Each**

### QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Explain the objectives of the following finishes as used in textile industry;
- i. Weighting (2 marks)
  - ii. Crimping (2 marks)
  - iii. Singeing (2 marks)
  - iv. Mercerizing (2 marks)
  - v. Sizing (2 marks)
- b) Illustrate two (2) types of twist in yarns. (4 marks)
- c) Explain four (4) reasons for blending and mixing fibres in a manufacturing firm. (4 marks)
- d) Elaborate on three (3) methods of fabric construction and give examples in each case. (6 marks)
- e) Explore three (3) byproducts of linen and explain one use of each. (6 marks)

### QUESTION TWO (20 MARKS)

Discuss with a colleague three (3) types of chemical spinning and give two examples in each case.

**QUESTION THREE (20 MARKS)**

Explain to a first-year student in fashion design steps involved in the production and processing of cotton in Kenya.

**QUESTION FOUR (20 MARKS)**

Describe to an interview panel the production and processing of Acetate.

**QUESTION FIVE (20 MARKS)**

Explain to your colleague the four types (4) modified rayon which could be used in textile manufacturing farm.