



# MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF FASHION DESIGN AND MARKETING

FIRST YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF SCIENCE IN FASHION DESIGN AND MARKETING

HFM 100-INTRODUCTION TO TEXTILES

DATE: 22/01/2021

TIME: 8.30-10.30 AM

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## INSTRUCTIONS:

*This paper consists of five questions.*

*Answer Question 1 and any other two questions*

*Question 1 carries 30 marks*

*Question 2-5 carry 20 marks each*

### QUESTION ONE (30 MARKS)

- a) Determine the objectives of the following finishes used in fabrics (3 marks)
- singeing :
  - Tentering
  - mercerizing
- b) Broadly classify weaves into two (2) categories. Give an example of each (4 marks)
- c) With the aid of diagrams, determine two (2) major types of twists in yarn (4 marks)
- d) State four (4) characteristics of Rayon fabric (4 marks)
- e) Briefly explain three (3) factors that determine the Amount of Twist in fibres (6 marks)
- f) Describe three (3) by products of cotton and state two uses of each (9 marks)

### QUESTION TWO (20 MARKS)

Define spinning and explain to a fiber producer, three (3) types of chemical spinning.

**QUESTION THREE (20 MARKS)**

Explain to a fellow colleague steps involved in the manufacture of cotton In Kenya

**QUESTION FOUR (20 MARKS)**

Yarns are classified according to the number of parts. With the aid of illustrations elaborate this to a fourth year student

**QUESTION TWO (20 MARKS)**

Determine ten (10) general properties of textile products