



# MACHAKOS UNIVERSITY

University Examinations for 2020/2021 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: 23/3/2021

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*

1. a) Determine the objectives of the following finishes used in fabrics (3 marks)
  - i. singeing :
  - ii. Tentering
  - iii. 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)
2. Define spinning and explain to a fiber producer, three (3) types of chemical spinning. (20 marks)
3. Explain to a fellow colleague steps involved in the manufacture of cotton In Kenya (20 marks)
4. Yarns are classified according to the number of parts. With the aid of illustrations elaborate this to a fourth year student (20 marks)
5. Determine ten (10) general properties of textile products (20 marks)