

## 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

## **INSTRUCTIONS:**

This paper consists of five questions.

Answer Question 1 and any other two questions

Ouestion 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)