



# MACHAKOS UNIVERSITY

University Examinations for 2020/2021 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF HUMANITIES

THIRD YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR  
BACHELOR OF SCIENCE IN FASHION DESIGN AND MARKETING

HFM 308: TEXTILE PERFORMANCE AND TESTING

DATE: 26/3/2021

TIME: 2.00-4.00 PM

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## INSTRUCTIONS:

This paper consists of **five questions**.

Answer Question 1 and any other **two** questions

Question 1 carries 20 marks

Question 2-5 carry 15 marks each

- State five (5) factors that affect textile testing results (5 marks)
  - Highlight five (5) physical features of a fiber that are affected by the amount of moisture they absorb (5 marks)
  - Determine five (5) objectives of textile testing (4 marks)
  - State three (3) factors one should consider when determining the twist of a yarn (6 marks)
- Explain to a colleague three (3) techniques you would use to measure fibre length (15 marks)
- Describe to a classmate three (3) basic methods she /he would use to measure irregularities in the thickness of her yarn (15 marks)
- Elaborate on five (5) ways through which fabrics lose color, that you acquired from a dye specialist (15 marks)
- Explain five (5) secondary characteristics of textile fibers (15 marks)