



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF FASHION DESIGN AND MARKETING

THIRD YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE IN FASHION DESIGN AND MARKETING

HFD 308: TEXTILE PERFORMANCE AND TESTING

DATE: 4/12/2019

TIME: 8.30-10.30 AM

INSTRUCTIONS:

This paper consists of **five questions**.

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

QUESTION ONE (30 MARKS)

- a) State three (3) main conditions that a good sample must satisfy (3 marks)
- b) Identify three (3) principles that tenacity testing machines use (6 marks)
- c) Determine four (4) reasons why fabrics shrink when wetted, steamed or washed (4 marks)
- d) Identify five (5) physical features of a fiber that are affected by the amount of moisture they absorb (5 marks)
- e) Differentiate between primary and secondary characteristics of textile materials (2 marks)

QUESTION TWO (15 MARKS)

Explain to a lab technician five (5) main methods used to identify textile fibres

QUESTION THREE (15 MARKS)

Elaborate to a fellow student, how a slab catcher is used to measure yarn irregularity

QUESTION FOUR (15 MARKS)

With the aid of diagrams, describe three (3) methods you would use in measuring tearing strength in fabrics

QUESTION FIVE (20 MARKS)

Explain five (5) primary characteristics of textile fibers