



MACHAKOS UNIVERSITY

University Examinations for 2021/2022 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF HUMANITIES

THIRD YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE IN FASHION DESIGN AND MARKETING

HFD 308: TEXTILE PERFORMANCE TESTING

DATE: 24/8/2022

TIME: 8.30-10.30 AM

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) Identify four (4) potential faults that can be caused by immature fibers during processing. (4 marks)
- b) Describe four (4) primary characteristics of textile fibers. (4 marks)
- c) Elaborate on three (3) effects of fiber fineness on yarn and fabric properties. (6 marks)
- d) Explain three (3) physical properties of textiles that are affected by moisture. (6 marks)
- e) Explain five (5) factors that affect textile during tensile testing. (10 marks)

QUESTION TWO (20 MARKS)

As a textile testing specialist at one of the International Bureau of standards. Describe five (5) effects of twist level on the performance of a textile other than strength.

QUESTION THREE (20 MARKS)

You have been appointed as a textile testing specialist at Kenya Bureau of Standards. Describe to a student doing fashion design course the objectives of textile testing.

QUESTION FOUR (20 MARKS)

You have been provided with different types of textile fibers. Discuss five (5) main methods you would use to identify them.

QUESTION FIVE (20 MARKS)

In your capacity as a specialist at a textile manufacturing industry producing yarns, explain five (5) primary characteristics of textile fibers to a group of visiting students taking course in fashion and design.