



MACHAKOS UNIVERSITY

University Examinations for 2021/2022 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF HUMANITIES

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

HFM 100: INTRODUCTION TO TEXTILES

DATE: 26/8/2022

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) Define the following terms. (1 Mark each)
- Staple fibers
 - Filament fibers
 - Hygroscopic fibers
 - Thermoplastic fibers
- b) State the **TWO** classifications of braided textiles. (2 marks)
- c) State **THREE** advantages of nonwovens compared to other methods of fabric construction (3 marks)
- d) Using an illustration, draw a flowchart depicting the classification of textile fibers, giving two examples in each class. (4 marks)
- e) Using a well labelled diagram, explain the process of manufacturing fibers using the wet spinning process. (4 marks)
- f) Highlight any **TWO** classifications of yarns. (4 marks)

- g) Outline any TWO styles that can be used during textile printing. (4 marks)
- h) Briefly explain any TWO dry pretreatments done prior to textile finishing. (5 marks)

QUESTION TWO (20 MARKS)

During an interview for the position of weaving manager, one member of the interview panel asked you to describe the basic motions necessary for weaving to occur. Using diagrams where necessary, discuss the basic weaving motions.

QUESTION THREE (20 MARKS)

Discuss the knitting under the following sub-headings;

- a) Types of knitting processes (10 marks)
- b) Applications of knitted fabrics (10 marks)

QUESTION FOUR (20 MARKS)

There has been an increase in the use of nonwoven textile materials in Kenya due to the ban of polythene bags. Discuss any FIVE applications of nonwovens other than packaging.