MACHAKOS UNIVERSITY

University Examinations 2022/2023 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF FASHION DESIGN AND MARKETING

FIRST YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE (FASHION DESIGN AND MARKETING)

HFM 100: INTRODUCTION TO TEXTILES

DATE:13/12/2022   **TIME: 2:00 – 4:00 P.M**

INSTRUCTIONS

ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS

QUESTION ONE (30MARKS)

a) Define the following terms used in this course:
i.	Fibre resiliency	(1mark)
ii.	Lap	(1mark)
iii.	Polymerization	(1mark)
iv.	Piece Dyeing	(1mark)
v.	Yarn count	(1mark)
vi.	Fabric finishing	(1mark)

b) Differentiate between:
i.	Fibre and Fabric	(2marks)
ii.	Mixture and Blend	(2marks)
iii.	Noils and Tops	(2marks)
iv.	Right-hand twill and Left- hand twill	(2marks)
v.	Needle bonding and Stitch bonding	(2marks)

c) Explain four (4) characteristics of fabrics made through:
i.	Sateen Weave	(2marks)
ii.	Knitting	(2marks)
iii.	Felting	(2marks)

d) Briefly explain 4 negative characteristics of:
i.	Cotton Fabric	(2marks)
ii.	Acetate Rayon	(2marks)
iii.	Glass Fibres	(2marks)
iv.	Terylene Fibres	(2marks)

QUESTION TWO (20MARKS)

Discuss the preparatory processes that a fabric may be taken through before final finishing is done.

QUESTION THREE (20MARKS)

a)   What characteristics make Nylon yarns unpopular for making apparel fabrics?

(7 marks)

b)   Discus the production and processing o nylon.   (13 marks)

QUESTION FOUR (20MARKS)

Discuss the various types of plies used in yarn construction, using illustrations to demonstrate your examples.   (10 marks)

Illustrate the classification of textile fibres, giving examples to support your answer.

(10 marks)

QUESTION FIVE (20MARKS)

Discuss the production and processing of linen fibres**.**