# MACHAKOS UNIVERSITY 

University Examinations 2018/2019
SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
DEPARTMENT OF FASHION DESIGN
FIRST YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR
BACHELOR OF SCIENCE IN FASHION DESIGN AND MARKETING

HFM 108: FASHION FABRICS
DATE: 25/9/2019
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
a) Define the following methods of fabric formation.
i) Weaving
ii) Braiding
iii) Tufting
iv) Nonwoven
v) Knitting
b) Demonstrate the (2) TWO methods of weave representation
c) Explain any (3) THREE end uses of braided fabrics
d) Highlight any (2) TWO differences between the warp knitting and weft knitting [4 marks]
e) Outline (5) FIVE basic mechanisms necessary for continuous weaving to occur [5 marks]
f) Describe any (3) THREE bonding techniques applied during formation of nonwovens [6 marks]

## QUESTION TWO

You have been contracted as a textile consultant with a weaving mill. Explain to your clients (5) FIVE weaving preparatory processes and their importance during the weaving process.

## QUESTION THREE

Due to the ban on plastic bags in Kenya, there is an increased use of nonwovens as a replacement. Discuss any other (5) FIVE major applications of nonwoven fabrics, giving two examples in each case

## QUESTION FOUR

You are invited for a job interview in a knitting firm. Describe to the interviewing panel the process of loop formation during the knitting process

## QUESTION FIVE

As the head of fabric design department, construct the weave representation diagrams for the following weaves for your subordinates'. Indicate any (2) TWO applications of fabrics made from each of the weave patterns.
i) $1 / 1$ plain weave
ii) $3 / 3$ matt weave
iii) $2 / 2$ matt weave
iv) $1 / 2$ twill weave
v) $1 / 3$ twill weave

