



MACHAKOS UNIVERSITY

University Examinations 2018/2019

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF FASHION DESIGN

**FIRST YEAR SUPPLEMENTARY/SPECIAL EXAMINATION FOR
BACHELOR OF SCIENCE IN FASHION DESIGN AND MARKETING
HFD 100: INTRODUCTION TO TEXTILE**

DATE: _____

TIME: _____

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 (compulsory) (30 marks)

- a) Define the following terms as used in textile;
- | | |
|--------------------|----------|
| i) Delustrant | [1 mark] |
| ii) Multi-filament | [1 mark] |
| iii) Woolen system | [1 mark] |
| iv) Tenacity | [1 mark] |
| v) Lustre | [1 mark] |
- b) Highlight the characteristics to observe during a burning test [4 marks]
- c) State five (5) reasons fabric finishing is important [5 marks]
- d) Illustrate the classification of textile fibres [5 marks]
- e) Outline five (5) properties of cotton fibre [5 marks]
- f) Describe three (3) types of basic weaves [6 marks]

2. a) Describe to a team of potential investors in the silk sector the production process of silk fibres [10 marks]
b) Based on silk fibre properties, explore two uses of silk in fashion design [10 marks]
3. a) Explain to a group of BSc fashion design students visiting your textile firm the production process of wool is produced [10 marks]
b) Explore five (5) properties of wool fibre that make it appropriate for apparel [10 marks]
4. Elaborate to textile technicians in a seminar the method and purpose of the following textile processes,
 - i) Scouring [5 marks]
 - ii) Bleaching [5 marks]
 - iii) Sizing [5 marks]
 - iv) Mercerization [5 marks]
5. You are facilitating an in-service training for textile technologists at Machakos University,
 - i) Using diagrams explain two (2) techniques that can be used to manufacture man-made fibres [10 marks]
 - ii) Describe two (2) spinning techniques employed in yarn production [10 marks]