



MACHAKOS UNIVERSITY

University Examinations 2018/2019

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF FASHION DESIGN

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

HFM 104: CARE OF TEXTILE PRODUCTS

DATE: 23/9/2019

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 (COMPULSORY) (30 MARKS)

- a) Highlight (2) TWO advantages and (2) TWO disadvantages of soap [2 marks]
- b) Explain the functions on optical brightening agents and carboxymethylcellulose (CMC) as detergent builders [2 marks]
- c) List (3) THREE roles of bleaching during laundering [3 marks]
- d) Outline any (2) TWO fiber properties that influence our selection of clothing for various applications [4 marks]
- e) Explain (2) TWO methods of washing textiles [4 marks]
- f) Describe (2) TWO techniques of stain removal [4 marks]

g) State (5) FIVE categories of textile care labels and symbols [5 marks]

h) Highlight any (3) THREE water softening methods as used by textile launderers [6 marks]

QUESTION TWO (20 MARKS)

As an expert in textile products care, describe the (5) FIVE major factors that affect textiles giving relevant examples in each.

QUESTION THREE (20 MARKS)

Water plays a very important role during laundering of textiles. Discuss any (5) FIVE impurities that must be reduced or avoided by launderers in water and their effect on the laundering process.

QUESTION FOUR (20 MARKS)

You are lecturing the course 'care of textile products'. Using illustrations, demonstrate the working principle of surfactants during removal of soil from fabric surfaces to your students.

QUESTION FIVE (20 MARKS)

You have designed clothing for various applications. Using Illustrations, show the following care instructions to be used on labels for the clothes;

- i. Line drying
- ii. Line drying in the shade
- iii. Drip line drying
- iv. Drip line drying in the shade
- v. Flat drying
- vi. Flat drying in the shade
- vii. Do not chlorine bleach
- viii. Normal drying process
- ix. Do not dry clean
- x. Gentle professional wet cleaning