

MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year SCHOOL OF HUMANITIES AND SOCIAL SCIENCES DEPARTMENT OF FASHION DESIGN AND MARKETING SECOND YEAR SECOND SEMESTER EXAMINATION FOR DIPLOMA IN FASHION DESIGN AND MARKETING

HFM 043: TEXTILE PERFORMANCE TESTING

DATE: 22/10/2020 TIME: 8.30-10.30 AM

INSTRUCTIONS:

Answer question one and any other two questions

QUESTION ONE (30 MARKS)

a) Define the following terms

i. Moisture regain (2 marks)

ii. Abrasion (2 marks)

b) Complete the burning test table below. (4 marks)

Fabric	In flame	Odour
Linen		
Silk		
Acetate		
Viscosa		

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c)	I litte	rentiate	between
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i. Grab test and cut strip test (2 marks)

ii. Stains and solvent test of fabric (2 marks)

d) State the function of the following instruments

i. Comb sorter (1 mark)

ii. Stelometer (1 mark)

e) Outline three defects found in knitted fabric (3 marks)

f) Describe ONE (1) flammability testing of fibers (3 marks)

QUESTION TWO (15 MARKS)

- a) As a supervisor in Kenya Bureau of Standards in the textile testing section, explain five (5) objectives of textile testing to your staff (10 marks)
- b) Briefly outline five (5) factors which contribute to thermal property (5 marks)

QUESTION THREE (15 MARKS)

Using a well labelled diagram, describe water spray repellency test.

QUESTION FOUR (15 MARKS)

- a) John a supervisor of a textile industry needs to check defects of woven fabric. Explain any five (5) defects found in woven fabric. (10 marks)
- b) As a trainer in a textile laboratory explain to your staff any two methods of abrasion testing of fibers. (5 marks)

QUESTION FIVE (15 MARKS)

You are a supervisor in a textile testing laboratory, discuss the identification process of cotton using this sub heading

a) Reaction to heat (4 marks)
b) Microscopy
c) Solvent test (4 marks)
d) Feeling test (3 marks)