



MACHAKOS UNIVERSITY

University Examinations 2016/2017

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF FASHION DESIGN AND MARKETING

SECOND YEAR FIRST SEMESTER EXAMINATION FOR DIPLOMA IN FASHION
DESIGN AND MARKETING

FDD 203: TEXTILE PERFORMANCE AND TESTING

DATE: 2/6/2017

TIME: 2.00-4.00 PM

INSTRUCTIONS

This paper consists of five questions

Answer question one and any other Two questions

1. a) Define the following terms
 - i. Tensile strength (2 marks)
 - ii. Moisture content (2 marks)
 - iii. Breaking strength (2 marks)
- b) State the function of the following instruments as used in textile testing
 - i. Stelometer (2 marks)
 - ii. Tensorapid (2 marks)
 - iii. Spectogram (2 marks)
- c) Highlight three properties of textile fibers. (3 marks)
- d) List four benefits of statistical quality control in textiles. (4 marks)
- e) Name four finish performance tests carried out on textiles. (4 marks)
- f) Differentiate between tear strength and bursting strength. (4 marks)
- g) Highlight three effects of piling on a fabric. (3 marks)

2. Kimanthi a quality controller in Ndaani Textile Industry has filed a complaint indicating that fabrics received from Manchester limited are full of defects. Describe ten defects that may be found in these fabrics. (20 marks)
3.
 - a) A friend approaches you carrying a fabric that she claims is cotton. She requests you to test the fabric to determine whether it is really cotton. Describe the most suitable test that would determine whether it is really cotton. (10 marks)
 - b) Explain two rules to be followed when obtaining a sample from the fabric to be tested. (4 marks)
 - c) Outline four objectives of testing fabric strength (6 marks)
4. Discuss the procedure of removing trash from fibres using the Shirley Trash Analyser. (20 marks)
5. You have been offered a job at KEBs as a quality control manager. Describe your job description in detail. (20 marks)