



MACHAKOS UNIVERSITY

DIRECTORATE OF TVET

DEPARTMENT OF FASHION DESIGN

DIPLOMA IN FASHION DESIGN YEAR 1

UNIT CODE: 2803/103/TS: TEXTILE SCIENCE

DATE:24/11/2023

TIME: 2:30-5:30PM

INSTRUCTIONS:

Answer all the Questions

QUESTION ONE

a) Define the following terms as used in textile knowledge

- | | |
|-------------------|----------|
| i. Fabric | (1 Mark) |
| ii. Filament yarn | (1 Mark) |
| iii. Spinning | (1 Mark) |
| iv. Staple yarn | (1 Mark) |
| v. Textile | (1 Mark) |

b) With a aid of a chart show the classification of textile fibres and show two fabrics made from each fibre (10 Marks)

c) Outline five (5) methods in which we use to test textile fibres (5 Marks)

QUESTION TWO

a) Describe the procedures and processes of producing cotton fibres (10 Marks)

b) Explain the advantages and disadvantages of cotton fibres (10 Marks)

QUESTION THREE

a) Discuss any three (3) sources textile fibres (6 Marks)

b) Explain the importance of studying textiles science to a fashion designer (14 Marks)

QUESTION FOUR

- a) Highlight any **TEN** (10) fabrics obtained from cotton fibres (10 Marks)
- b) Describe any **five** (5) methods of testing Cotton fibres (10 Marks)

QUESTION FIVE

- (a) Explain any seven general properties of textile fibres (14 marks)
- (b) Name any six fabric obtained from cotton fibres (6 marks)

QUESTION SIX

- (a) With a aid of a table describe the differences between Natural and Man-made fibres (10marks)
- (b) Explain the sources of linen fibres (6 marks)
- (c) State any four types of Retting in the production of linen fibres (4 marks)