



MACHAKOS UNIVERSITY

University Examinations 2018/2019

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF FASHION DESIGN AND MARKETING

FIRST YEAR THIRD SEMESTER EXAMINATION FOR

DIPLOMA IN FASHION AND GARMENT MAKING

2803/102/TS: TEXTILE SCIENCE

DATE: 18/12/2020

TIME: 8:30 – 11:30 AM

INSTRUCTIONS

Answer all the questions.

QUESTION ONE

- a) Describe the three (3) methods of desizing. (6 marks)
- b) Explain any four (4) characteristics of the amorphous region. (6 marks)
- c) Using diagrams explain the following:
 - i. Crystalline region. (4 marks)
 - ii. Fringed micelle model. (3 marks)
- d) State any six (6) types of yarns. (6 marks)

QUESTION TWO

- a) Explain the shape and physical appearance of the following fibres:
 - i. Cotton (Cellulose). (5 marks)
 - ii. Flax. (5 marks)
 - iii. Wool. (5 marks)
 - iv. Synthetic filaments. (5 marks)
- b) State any five (5) origins of fibres. (5 marks)

QUESTION THREE

- a) Explain the three (3) reasons for weighting silk fibres. (6 marks)
- b) Explain the disadvantages and advantages of chemical vetting in a flax (linen) fibre. (6 marks)

- c) Distinguish between tie-and-dye and batik. (8 marks)
- d) Highlight five (5) fabric faults that may occur during printing. (5 marks)

QUESTION FOUR

- a) Explain the procedures and processes followed during the production of linen fibres. (15 marks)
- b) State any five (5) properties of linen fibres. (5 marks)
- c) List five (5) uses of linen fibres. (5 marks)