



# MACHAKOS UNIVERSITY

University Examinations 2021/2022 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF FASHION DESIGN AND MARKETING

FIRST YEAR FIRST TERM EXAMINATION FOR

DIPLOMA IN FASHION DESIGN AND GARMENT MAKING

2803/102/TS: TEXTILE SCIENCE 1

DATE: 25/11/2021

TIME: 8.30-10.30 AM

## INSTRUCTIONS

### ANSWER ALL THE QUESTIONS

1. a) Define the following terms;-
  - i. Ginning
  - ii. Textile Fibre
  - iii. Fabric
  - iv. Yarn (10 marks)
- b) Draw the textile fibre classification chart. (10 marks)
- c) State the difference between animal and vegetable fibres. (5 marks)
2. a) Describe the production process of cotton. (10 marks)
- b. i) Outline the methods of fibre identifications. (5 marks)
- ii) Explain the safety precautions to observe when conducting fibre identifications. (10 marks)
3. a) Distinguish worsted and woolen yarns (10 marks)
- b) Explain the fibre properties of wool (10 marks)
- c) state the end uses of wool (5 marks)
4. a) Explain the qualities that make cotton a popular fabric (10 marks)
- b) Discuss the 5 factors which contribute to fibre properties (10 marks)
- c) Differentiate fibre and fabric (5 marks)