



MACHAKOS UNIVERSITY

University Examinations 2018/2019

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
DEPARTMENT OF FASHION DESIGN AND MARKETING
FIRST YEAR THIRD SEMESTER EXAMINATION FOR
CERTIFICATE IN FASHION AND GARMENT MAKING
1801/104/TMKC: TEXTILE MATERIAL KNOWLEDGE

DATE: 15/12/2020

TIME: 2:30 – 5:30 PM

INSTRUCTIONS

Answer all the questions.

QUESTION ONE

- a) State two (2) functions of the following during the tie and dye process:
- i. Pot (2 marks)
 - ii. Jag (2 marks)
- b) Explain the following colour terms citing examples in each case:
- i. Analogous scheme (3 marks)
 - ii. Hue (3 marks)
- c) Explain five (5) fashion qualities for coloured fabric. (15 marks)

QUESTION TWO

- a) Define a yarn and explain their importance and use in textile material knowledge.(11 marks)
- b) Using diagrams describe Z and S twists. (6 marks)
- c) Name the difference between the following divisions of yarns:
- i. Spin yarns (3 marks)
 - ii. Filament yarn (3 marks)

QUESTION THREE

- a) Using sketches explain the following:
- i. Single yarns (3 marks)
 - ii. Multiple wound yarns (3 marks)
 - iii. Folded yarns (3 marks)
 - iv. Cabled yarns (3 marks)
- b) Explain the following:
- i. Yarn (2 marks)
 - ii. Tex (2 marks)
 - iii. De-tex (2 marks)
 - iv. Textured yarns (2 marks)
- c) Outline five (5) characteristics of filament yarns. (5 marks)

QUESTION FOUR

- a) Outline six (6) characteristics of fibre with low absorbency. (9 marks)
- b) Explain five (5) limitations of cotton fabric during use. (10 marks)
- c) Using a chart, describe the burning test for the following fibres: (7 marks)
- i. Cellulose fibres (cotton, linen, rayon)
 - ii. Protein fibres (wool, silk)
 - iii. Acrylic/ Modacrylic
 - iv. Nylon
 - v. Polyester
 - (i) Acetate
 - (ii) Olefin