



THE KENYA POLYTECHNIC UNIVERSITY
COLLEGE

DEPARTMENT OF INSTITUTIONAL MANAGEMENT

DIPLOMA IN CLOTHING TECHNOLOGY

END OF YEAR II EXAMINATIONS

NOVEMBER 2007 SERIES

TEXTILE SCIENCE

TIME: 3 HOURS

INSTRUCTIONS:

Answer FIVE Questions On The Answer sheets Provided

This paper consists of 3 printed pages

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1. Explain the following terms as used in this textile science:
 - a) Filament
 - b) Polymerization
 - c) Resiliency
 - d) Regenerated fibres
 - e) Aesthetic finishes (10 marks)
- b) Differentiate between the following:-
 - a) Complex yarns and textured yarns
 - b) Bonding and weaving
 - c) Felting shrinkage and relaxation shrinkage
 - d) Wales and courses (10 marks)
2. State the effects of the following:-
 - a) Prolonged exposure to nylon
 - b) Brushing some cotton fabrics during manufacture
 - c) Acetone on acetate rayon
 - d) Washing a permanently pleated skirt in hot water.
 - e) Weighting of silk (10 marks)
- b) Outline FIVE properties of thermoplastic fibres (10 marks)
3. a) Discuss FIVE advantages of mixtures and blends (10 marks)
- b) Explain THREE characteristics of the following weaves:-
 - i. Plain weave
 - ii. Twill weave
 - iii. Sateen weave (10 marks)