

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

**DEPARTMENT OF TEXTILE TECHNOLOGY
END OF SEMESTER EXAMINATIONS DECEMBER 2003
FABRIC STRUCTURE AND PROPERTIES TXT 2117
TIME: 2 HOURS 30 MINS**

INSTRUCTIONS

Answer ALL questions from Section A and ANY THREE from section B. Section A carries 40 marks and each question in section B carries 20 marks. Allocate 60 minutes to section A and 90 minutes to section B

SECTION A

Answer ALL question in this section

1. Show structural presentations of 3 variations of plain knits and describe how each is produced. (6 marks)
2. Show how a half-cardigan knit differs from a full cardigan knit. (4 marks)
3. Show a warp knit loop rotation for the figures a and b below. (8 marks)
4. What are differences are thee in the fabrics whose structures are shown below. Explain how each is produced. (6 marks)
5. Describe how breaking occurs in a fabric. Illustrate (6 marks)
6. Draw the structural presentation of the fabrics below (6 marks)
7. With the aid of a diagram explain how a pique fabric is obtained. (6 marks)
8. Draw a satin and sateen both 5 x 1 structures (4 marks)
9. Explain how Rachel knits are different from hicot knits. (2 marks)
10. With the aid of diagrams, discribe the difference between a double rib and an interlock. (4 marks)
11. Explain the Malimo Technique. Illustrate (8 marks)

SECTION B