NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF TEXTILE TECHNOLOGY END OF SEMESTER EXAMINATIONS DECEMBER 2003 FABRIC TECHNOLOGY II TXT 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. With the help of figures, explain the difference between a loop and a stitch. (4 marks)
- 2. Which two needles is used in weft knitting? Why is one more popular than the other? (4 marks)
- 3. Explain how the shogging movement is initiated in warp knitting. (3 marks)
- 4. During knitting elements section which tow steps are involved? Explain methods employed for the second tasks. (8 marks)
- 5. Explain the fig below. What to variations of this setting can be obtained. Illustrate

(8 marks)

- 6. Illustrate the knitting procedure of an atlas knit with closed loops, open loops. Draw the illustrated structure. (8 marks)
- 7. (a) What is the importance of the knitting direction on any circular knitting (3 marks)
 - (b) Why are the knitting yarn cones fled from the side of the machines. (2 marks)
- 8. Discuss how warping yarn for a warp knitting machine should be done for easy usage. Give an example. (6 marks)

9.	9. Use figures to explain the production of a (i) miss stitch (ii) luck stitch			
10.		Which positions are occupied by the needle to achieve a couple knitting cycle in a single jersey machine.		
			(6 marks)	
SECTION B				
1	(a)	explain the following canne system with reference to the ma knitting structure produces.	achine and its (10 marks)	
	(b)	With the aid of diagrams, explain how loop transfer is achie straight bar machine	eved on a (10 marks)	
2.	(a)	Discuss Needle timing in a rib machine.	(8 marks)	
	(b)	Describe how needles are electronically selected. Use figur	es.	
3.		What is involved in computer graphics pattern preparation.	(20 marks)	
4.	(a)	Use a diagram to explain the arrangement of knitting element mechanical selection	nts having full (12 marks)	
	(b)	Explain how knitting is achieved on purl or links-links mac	hine illustrate. (8 marks)	
END OF QUESTION PAPER				