

www.FirstRanker.com

www.FirstRanker.com

Roll No.	otal No. of Pages : 02
Total No. of Questions : 09	
B.Tech. (Textile Engg.) (2011 Onwards) KNITTING TECHNOLOGY Subject Code : BTTE-603 M.Code : 71737	(Sem6)
Time:3 Hrs.	Max. Marks:60

INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly :

- a) What is curling tendency in plain knits?
- b) What is the function of a verge?
- c) Define Needle timing and state its importance.
- d) If the stitch density of a wet relaxed knitted fabric is 86.4, estimate the courses/cm and wales/cm.
- e) Define Tightness factor.
- f) Give the structure of lacoste knit fabric.
- g) Highlight the advantages and disadvantages of latch needle.
- h) What is a guide bar and the different motions given to a guide bar?
- i) Define Robbing back factor.
- j) Why compound needle is the fastest of all the needles?



www.FirstRanker.com

SECTION-B

- 2. How are interlock fabric manufactured? Describe its cam system.
- Give the knitting cycle of Raschel knitting machine. Also compare the properties of 3. Raschel and Tricot knit fabrics.
- What are the fundamental stitches in knitting? What are their various characteristics and 4. properties?
- 5. Describe the computer controlled patterning mechanism used for the ornamentation of simple knitted structures.
- Calculate the length in 'meters' of a plain single jersey structure knitted at 20cpcm and 6. 40 wpcm on a 30" diameter, 20 gauge machine having 120 feeders. The machine operates for 8 hours at 40 rpm and 95% efficiency. Also calculate the fabric width.

SECTION-C

7. Give the lapping diagrams of the following warp knitted structures : tRanker.

QUEENSCORD LOCKNIT SATIN SHARKSKIN ATLAS

- Describe the loop formation process in a V- bed flat knitting along with its cam system. 8.
- What are the properties of the yarn that affect the performance of the knitting machine 9. and how?

NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC case against the Student.