Printed pages: 02 **Sub Code: NTT 603**

Paper Id: **161603** **Roll No:** | | | | | | | | | | |

B TECH

(SEM-VI) THEORY EXAMINATION 2017-18

FABRIC MANUFACTURE - IV

Time: 3 hours Total Marks: 100

Note: - i) Attempt all questions.

ii) All questions carry equal marks.

SECTION - A

1. Attempt all Questions. All Questions carry equal marks. (10x2=20)

a) What is multiple box motion?
b) What are the features of SLSC jacquard?
c) What is weft replenishment motion?
d) What are different terry mechanisms which enable loops in terry fabrics?
e) What is advantage of electronic jacquard over mechanical jacquard?
f) Write names of various types of warp stop motions
g) Define narrow fabrics.
h) What pick is at will motion?
i) What is weft mixing?
j) What is braiding?

SECTION – B

2. Attempt any FIVE questions from this section. . (10x5=50)

a) Explain the London and Norwitch system of harness mounting in the jacquard.
b) State the salient features of double lift single cylinder jacquard over the single lift single cylinder jacquard.
c) Describe working principle of SLSC jacquard with a neat diagram
d) Describe the following with neat diagram

   a. Needle Punching Technology

   b. Melt blown Technology

e) What are recent developments in jacquards.
f) What is the utility of warp stop motion in automatic loom? Explain any one warp stop motion with neat diagram.
g) Describe the principle of formation of terry pile with a neat diagram.

SECTION – C

Attempt any two Questions from this section. **(15x2=30)**

3. Describe the working principle of auto Pirn change mechanism with neat diagram.
4. Illustrate with neat diagram and describe the working of a Cowburn and Peck's drop box mechanism.
5. A fabric production program on auto looms for five thousands meters of fabric has following particulars

Reed count (Stockport)	=	56
Ends per dent	=	2
Reed space	=	220 CM
Warp count	=	40 Tex
Warp Crimp	=	8 %

Find the weight of warp required in Kgs