

**B.TECH.**  
**(SEM VI) THEORY EXAMINATION 2018-19**  
**ADVANCE FABRIC MANUFACTURING**

**Time: 3 Hours**

**Total Marks: 70**

**Note: 1. Attempt all Sections. If require any missing data; then choose suitably.**

**SECTION A**

**2 x 7 = 14**

1. **Attempt all questions in brief.**
- (a) Name various leno devices
  - (b) Name various warp knitted structures
  - (c) Name type of knitting needles
  - (d) Sketch cross section of 4 pick terry
  - (e) Sketch various tri axial structures
  - (f) Name various type of web making techniques
  - (g) Define SMS nonwoven

**SECTION B**

**7 x 3 = 21**

2. **Attempt any three of the following:**
- (a) write a note on various pile fabrics
  - (b) describe double slotted steel doup for leno weaving
  - (c) With suitable sketch of knitting cycle of beard needle.
  - (d) Write a notes on fibre used in non woven
  - (e) Write a notes on various nonwoven bonding techniques

**SECTION C**

3. **Attempt any one part of the following:** **7 x 1 = 7**
- (a) Describe cam operated terry mechanism
  - (b) Describe leno structures also essential requirement for leno weaving

4. **Attempt any one part of the following:** **7 x 1 = 7**
- (a) Classify warp knitting machines. Discuss essential parts of warp knitting machine
  - (b) With suitable sketch describe shogging and swinging motion of guide bar on warp knitting machine.

5. **Attempt any one part of the following:** **7 x 1 = 7**
- (a) Sketch plain knit structure and describe the needle bed arrangement on flat and circular knitting machine.
  - (b) Write technical specifications of any modern weft knotting machine and also calculate its production.

6. **Attempt any one part of the following:** **7 x 1 = 7**
- (a) Classify non-woven based on end uses
  - (b) Briefly describe various finishing process for non-woven

7. **Attempt any one part of the following:** **7 x 1 = 7**
- (a) With suitable sketch describe wet web non woven technique
  - (b) Briefly describe Docan system for spun bonded fabric