

**BACHELOR OF CARPET AND TEXTILE TECHNOLOGY
(SEM VI) THEORY EXAMINATION 2017-18
ADVANCE FABRIC MANUFACTURE**

*Time: 3 Hours**Total Marks: 100***Note:** 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

- 1. Attempt *all* questions in brief. 2 x 10 = 20**
- a. Name any two techniques non woven bonding
 - b. Define geotextiles.
 - c. Sketch barb needle
 - d. Explain SMS nonwoven
 - e. Define Russian cord
 - f. Sketch double slotted steel doup
 - g. Name two weft knitted structures
 - h. Define course length
 - i. Sketch interlock
 - j. Define gauge of weft knitting machine

SECTION B

- 2. Attempt any *three* of the following: 10 x 3 = 30**
- a. With suitable sketch describe leno sheds using steel eyed doup.
 - b. Classify knitted fabric. Discuss advantage and limitation over woven.
 - c. With suitable sketch of knitting cycle of beard needle.
 - d. Write a short notes on advantages of non-woven on woven fabric
 - e. Briefly describe Docan system for spun bonded fabric

SECTION C

- 3. Attempt any *one* part of the following: 10 x 1 = 10**
- (a) With suitable Sketch describe Tug reed leno mechanism
 - (b) With suitable describe cloth control principle of terry weaving.
- 4. Attempt any *one* part of the following: 10 x 1 = 10**
- (a) Sketch and describe loop of knitted fabric.
 - (b) Calculate production of weft knitting machine. Assume suitable data
- 5. Attempt any *one* part of the following: 10 x 1 = 10**
- (a) With suitable sketch describe shogging and swinging motion of guide bar on warp knitting machine
 - (b) Sketch and describe passage of tricot warp knitting machine

- 6. Attempt any *one* part of the following: **10 x 1 = 10****
- (a) with suitable sketch Describe manufacture of voltex and also write their application
 - (b) Write a note on web parameters affecting non-woven needle punched fabric properties.
- 7. Attempt any *one* part of the following: **10 x 1 = 10****
- (a) Briefly describe various finishing process for non-woven
 - (b) Classify non-woven based on manufacturing techniques

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