

BTECH
(SEM VI) THEORY EXAMINATION 2018-19
TECHNOLOGY OF FINISHING-1

Time: 3 Hours**Total Marks: 70****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief. 2 x 7 = 14**

- a. Why finishing is required?
- b. Under which circumstances moisture is present in textiles?
- c. How to calculate the add-on percentage?
- d. Name the permanent easy care finish.
- e. What is the drying efficiency of vacuum-extractor in %age?
- f. Define blow ratio. How can it be calculated
- g. What is Roberto filled roller?

SECTION B**2. Attempt any three of the following: 7 x 3 = 21**

- a. Discuss the objectives of finishing in textiles? Explain with classification.
- b. Describe the method of cylinder drying with the help of neat sketch? Give advantages and disadvantages of cylinder drying technique.
- c. What is sanforization? What are the main components of sanforizer? Explain the working process of sanforization in brief with suitable diagram. How does it effect on the different parameters of textile materials?
- d. Discuss the 'Soft Handle' is an important characteristic of textile. How will you produce softness on the textiles?
- e. How foam finishing technology is used as energy conservation? Discuss by giving advantages and disadvantages of foam finishing.

SECTION C**3. Attempt any one part of the following: 7 x 1 = 7**

- (a) Explain different methods for generating various appearances on textile materials using calendars.
- (b) Explain the principles of finishing for different textile materials.

4. Attempt any one part of the following: 7 x 1 = 7

- (a) Write a note on finishing of linen.
- (b) What are the main functions of stenter? What is the working process of stenter? Explain with machine line diagram.

5. Attempt any one part of the following: 7 x 1 = 7

- (a) Discuss the mechanism of creasing. How anti-crease finishes are imparted on cotton textile?
- (b) Write a note on padding mangles? How it is used in textile wet processing?

6. Attempt any one part of the following: 7 x 1 = 7

- (a) Write a note on decatizing or crabbing processes of wool.
- (b) How can the stiffening agents be employed on the textile materials? Explain by taking examples of at least four stiffening agents

7. Attempt any one part of the following: 7 x 1 = 7

- (a) Discuss the use of hydro extractor and suction or vacuum extractor for drying the textile materials?
- (b) How can the 'wash and wear' finishes be employed on textile materials? How are they different from other anti-crease finishes? Explain.