

**B TECH
(SEM-VI) THEORY EXAMINATION 2017-18
TECHNOLOGY OF FINISHING-I**

Time: 3 Hours

Total Marks: 100

- Note:** 1. Attempt all Sections. If require any missing data; then choose suitably.
2. Any special paper specific instruction.

SECTION A

- 1. Attempt *all* questions in brief. 2 x 10 = 20**
- a. What is the need of finishing in textiles?
 - b. Write down the effects of over drying?
 - c. What are the mangles?
 - d. What are main components of sanforizer?
 - e. Name the various methods for generating different appearance on textile materials using calendars.
 - f. Name the semi permanent easy care finish.
 - g. Name the different stiffening agents to be used in textile finishing
 - h. Explain the concept of under-feeding on stenter.
 - i. How can we calculate the curing time?
 - j. What is the pad-dry-cure method is more energy conservative?

SECTION B

- 2. Attempt any *three* of the following: 10 x 3 = 30**
- a. What is the textile finishing? Give a detailed classification of various finishes on textiles.
 - b. What is the need of pre-drying? Name the different pre-drying methods. Explain any one method in brief
 - c. What are the objectives of calendaring? Explain the different type of calendaring processes? Draw suitable diagrams.
 - d. What is sanforization? What are the objectives of sanforizer? Explain the working process of sanforization in brief with suitable diagram. How does it effect on the different parameters of textile materials?
 - e. What is the need of heat setting? Explain the mechanism of heat setting with diagram. Write down the heat setting process.

SECTION C

- 3. Attempt any *one* part of the following: 10 x 1 = 10**
- (a) What are the main functions of stenter? What are the main components of stenter? What is the working process of stenter? Explain with machine line diagram.
 - (b) Describe Hot Air Drying method. Explain festoon drier and Buti drier with suitable machine diagrams.

- 4. Attempt any *one* part of the following: **10 x 1 = 10****
- (a) How can beetling process in linen be carried out? Explain by giving a diagram
 - (b) What is the need of softeners? Explain in brief with classification on the basis of chemical methods and comparison.
- 5. Attempt any *one* part of the following: **10 x 1 = 10****
- (a) How durable press finishes are applied on cotton textiles?
 - (b) What is the mechanism of foam finishing? What are the advantages and disadvantages of foam finishing
- 6. Attempt any *one* part of the following: **10 x 1 = 10****
- (a) What is the Decatising of wool? What are the different decatising methods? Explain with suitable diagrams.
 - (b) Write a note on milling of wool and shrink-proof wool
- 7. Attempt any *one* part of the following: **10 x 1 = 10****
- (a) Why low wet pick-up techniques are required in chemical finishing? What are the different low wet pickup methods?
 - (b) Write down and explain the mechanical methods of softening.