

B. Tech.
(SEM. V) THEORY EXAMINATION, 2017-18
TEXTILE AUXILIARIES

Time: 3Hours

Max. Marks: 100

Note: Attempt all Sections. Assume missing data, if any.

SECTION A

- 1. Attempt all questions in brief. (2 x 10 = 20)**
- (a) Mention the various considering factors of textile auxiliaries.
 - (b) What is surface activity? Explain.
 - (c) Explain dyeing with example.
 - (d) What is textile fiber?
 - (e) What are soaps?
 - (f) What is HLB? Explain.
 - (g) What do you mean by wetting? Explain.
 - (h) What is flame? Explain.
 - (i) What do you mean by bleaching?
 - (j) Define detergent.

SECTION-B

- 2. Attempt any three questions from this section. (10x3=30)**
- (a) What is a sequencing agent? Where it is used? Discuss various sequencing agents?
 - (b) Discuss the role of leveling agents in dyeing of polyesters fiber with disperse dyes with suitable examples.
 - (c) Write the various materials used for soaps. Give the preparation of any non ionic soap.
 - (d) Describe the various types of emulsions with examples and their uses in process house.
 - (e) State the functions of sun face active agents in bleaching and finishing of textile fibres.

SECTION-C

- 3. Attempt any one part of the following: (10X1=10)**
- (a) Give a detail classification of textile auxiliaries.
 - (b) What is detergency? Explain the principle and give the preparation of any one detergent.
- 4. Attempt any one part of the following: (10X1=10)**
- (a) Evaluate the efficiency of wetting agent.
 - (b) Evaluate the efficiency of flame retardancy and also give preparation of any one flame retarding agent.
- 5. Attempt any one part of the following: (10X1=10)**
- (a) Sketch Discuss the importance of stripping agents. Name various stripping agents used for fabric dyed with different dyes.
 - (b) Write the importance and method of estimation of available chlorine.
- 6. Attempt any one part of the following: (10X1=10)**
- (a) Explain the role of dispersing agents in dyeing of synthetic fibers with disperse dyes.
 - (b) What is surface tension and how it affects the wetting.
- 7. Attempt any one part of the following: (10X1=10)**
- (a) Does sequencing agents have any senity in wet processing? Explain if yes.
 - (b) Discuss the emulsion theory and its mechanism.