

[Total No. of Questions - 9] [Total No. of Printed Pages - 3]  
(2064)

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**B. Tech 6th Semester Examination**

**Textile Chem. Processing-II**

**TE-6003**

**Time : 3 Hours**

**Max. Marks : 100**

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

- Note :** (i) There are five sections A, B, C, D and E.  
(ii) Attempt any one question each from sections A, B, C and D.  
(iii) Section E is compulsory. Attempt all the questions in this section.

**SECTION - A**

1. (a) Explain any suitable exhaust method for polyester/cotton blend dyeing with disperse/reactive dyes. (10)  
(b) Describe the functions of various parts of a fabric mercerizing machine. (10)
2. (a) Discuss the technology of dyeing polyester/wood blend using one bath dyeing method. (10)  
(b) Demonstrate the constructional design of a kier & describe its working. (10)

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**SECTION - B**

3. (a) Describe the method of operation of screen printing giving details of equipments required. (10)
- (b) Write down process details of carbonization process. (10)
4. (a) Present an outline of working Roller printing machine. (10)
- (b) What are different classes of thickeners used in printing paste? Mention their characteristics. (10)

**SECTION - C**

5. (a) Describe discharge style of printing. Compare it with direct style. (10)
- (b) Discuss the principle of sanforization. (10)
6. (a) Discuss various printing after treatment processes in brief. (10)
- (b) Explain the mechanism of transfer printing with the help of diagram. (10)

**SECTION - D**

7. Mention different chemicals suitable for imparting antcrease characteristics to cotton & explain their mode of working. (20)
8. Define the term water repellancy. Explain how various water repellent chemicals impart this functionality. (20)

**SECTION - E**

9. (a) What is the role of steaming in printing?
- (b) What do you mean by kiering?

- (c) What are the various forms in which textile materials are dyed?
- (d) Mention various methods of printing.
- (e) What are the advantages of block printing?
- (f) What is the role of defoaming agent in the printing paste?
- (g) Why do we need calendering?
- (h) Why crease develops in cotton fabrics?
- (i) Classify finishing processes.
- (j) What drawbacks are associated with anti-crease finishes? (10×2=20)