



11. (a) Discuss the bleaching of cotton fabric using hypochlorite, hydrogen peroxide and sodium chlorite, also state their advantages and limitations.

Or

- (b) (i) Explain any four calendering process for cotton fabrics and highlight their importance. (8)
- (ii) Discuss the machinery selection from grey to finished stage for processing of woven and knitted fabrics. (8)
12. (a) (i) How dyeing uniformity can be assessed and what should be its acceptable limit? (6)
- (ii) Explain the mechanism of bond formation between the fibre and dye for dyeing of cotton fabric with reactive dye. (10)

Or

- (b) (i) What are the different processes for dyeing polyester fabric with disperse dye? (4)
- (ii) Discuss the recipe, process condition and procedures for dyeing polyester fabric in jet dyeing machine using disperse dye. (12)
13. (a) Explain in detail the process for printing a cotton fabric with reactive dye giving recipe, fixation and after treatment processes.

Or

- (b) (i) Explain different styles of printing textile fabrics. (12)
- (ii) What is transfer printing and how it is accomplished? (4)
14. (a) Explain the process of Wash-n-wear finish with necessary recipe and function of chemicals used during the process.

Or

- (b) Write short notes on : (4 × 4 = 16)
- (i) Antishrink finish on cotton
- (ii) Acid wash
- (iii) Sand blasting
- (iv) Stone wash.

15. (a) What is pollution? How it is happening during processing of textile materials in dye houses? Discuss the suitable remedies to control the dye effluent through various methods.

Or

- (b) (i) Describe the various types of pollution causes in processing units? (8)
- (ii) Explain the significance and importance of green house effect on environment. (8)
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