

PART B — (5 × 16 = 80 marks)

11. (a) Briefly discuss the various steps involved in printing of cotton fabric using resist and discharge style printing. (8 + 8)

Or

- (b) (i) Discuss in detail the printing process of cotton fabric using reactive dyes. (10)
(ii) Discuss the fixation and after treatment process of printed fabric. (6)
12. (a) Enunciate the different types of calendaring process adopted for cotton fabric.

Or

- (b) (i) Explain in detail the compacting process. (10)
(ii) State the chemicals used for softening and explain the application process. (6)
13. (a) Critically analyse the performance of various chemicals used for crease resist finish.

Or

- (b) (i) Briefly discuss the chemicals used for anti microbial finishing on cotton fabric. (8)
(ii) Write a note on finishing of knits. (8)
14. (a) Critically analyse effect of various chemicals used in textile processing industry on the toxicity of effluent.

Or

- (b) (i) Explain in detail, the mechanism behind the reverse osmosis process. (8)
(ii) Briefly discuss the enzymatic decolourisation process of textile effluent. (8)
15. (a) Write short notes on following :
- (i) Energy conservation techniques adopted in textile industry. (10)
(ii) Pollution control methods. (6)

Or

- (b) Clearly bring out the various textile export market requirements and analyse the importance of the same.