

C 3424

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2007.

Sixth Semester

Textile Technology

TT 1352 — TEXTILE CHEMICAL PROCESSING II

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State the causes and remedies for any two defects produced in flat bed screen printing.
2. Distinguish between different principles used in ink-jet printing.
3. Distinguish between acid and neutral celluloses.
4. State the role of relaxation and compressive shrinkages in anti-shrink finishing.
5. How do you differentiate a wash-n-wear finish with a durable press finish.
6. What are the different ways by which a softening treatment can be assessed.
7. State the importance of primary treatments of textile effluents.
8. State the uses of ozone in the treatment of textile effluent.
9. Give the classification of equipment used for emission control.
10. Give a note on liquid sample collection for water analysis.

PART B — (5 × 16 = 80 marks)

11. (a) Discuss about the production of discharge and resist styles of printing using vinyl sulphore reactive dyes.

Or

- (b) Give the salient features involved in the production of printed design using pigment emulsions.

12. (a) Discuss on the different types of effects produced using calendaring machines.

Or

- (b) Discuss on crease proofing of cotton fabrics using formaldehyde based agents.

13. (a) (i) Brief on burning characteristics of textile fibres. (8)
(ii) Brief on quality assessment of flame proofed textiles. (8)

Or

- (b) Elaborate on dimensional stabilization of tubular knitted fabrics.

14. (a) Give your understanding on the different methods of biological treatments of effluents.

Or

- (b) Discuss about the various aspects connected with the treatment of textile effluents using reverse osmosis principle.

15. (a) Discuss on the various possibilities of conservation and reuse of water in textile industry.

Or

- (b) Discuss on the scope for waste minimisation in chemicals and auxiliaries in a textile chemical processing house.