

N 1316

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2004.

Sixth Semester

Textile Technology

TT 342 — CHEMICAL PROCESSING OF TEXTILE MATERIALS — II

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. How are textile pigments vary from textile dyes?
2. State the difference between dyeing mechanism of acid dyes of different types, mordant dyes and metal-complex dyes.
3. Compare between different types of screens used in screen printing.
4. State the recipe used for discharge printing of polyester indicating its roles.
5. State the problems involved in the use of urea-formaldehyde precondensate.
6. Give reasons for shrinkage of textile fabrics.
7. State the various requirements with reasons for conducting perspiration fastness test.
8. Why are wool standards required in the assessment of light fastness?
9. Bring out the difference between sublimation fastness and gas fading.
10. State the precautions to be taken in dye and sewing thread selection in garment dyeing.

PART B — (5 × 16 = 80 marks)

11. (i) State the various principles used for importing anti-shrinking. (4)
(ii) Discuss on the role of various units in an anti-shrinking machine. (12)

12. (a) (i) Compare between various types of vat dyes. (4)
(ii) Discuss on dyeing of acrylic with disperse and basic dyes. (12)

Or

- (b) (i) Give the time-temperature profile for conventional and rapid dyeing of polyester. (4)
(ii) Discuss on production of azoic shades on cotton. (12)
13. (a) Discuss in detail on the production of printed goods using vinyl sulphone dyes.

Or

- (b) Explain in detail the various stages involved in transfer printing of polyester fabrics.
14. (a) (i) What are the reasons for poor washing and rubbing fastness of dyed goods. (4)
(ii) Discuss on determination of wash and rubbing fastness of dyed goods. (12)

Or

- (b) (i) State the features of a light fastness tester. (4)
(ii) State the various tests that can be carried out for assessment of any four finishes. Give reasons for your selection. (12)
15. (a) Discuss in detail to impart crease recovery finish to cotton fabrics. (16)

Or

- (b) Discuss on different types of machines used for processing garments. (16)