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B.Sc. (Applied Science) DEGREE EXAMINATION, NOVEMBER/DECEMBER 2003.

Third Semester

Apparel and Fashion Technology

FT 3.3 — GARMENT DYEING AND PRINTING TECHNOLOGY

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Distinguish between chemical composition of raw cotton and viscose.

2. State reasons for classifying some of the textile dyes as direct and reactive dyes.

3. Compare between bleaching with calcium and sodium hypochlorites.

4. Give a note on selection and use of a jigger and a winch.

5. How are grading of fastness properties carried out?

6. Give your opinion as selection of dyes for polyester/cotton fabrics.

7. State the liquor ratio used in different fabric dyeing machines.

8. Do you have a machine for continuous dyeing of yarn? Justify your answer.

9. Distinguish between discharge and resist style of printing.

10. State the various means of achieving transfer printing.

PART B — (5 × 16 = 80 marks)

11. Discuss in detail on merserisation of cotton fabrics.

12. (a) Discuss on bleaching of cotton goods with hydrogen peroxide. State its merits over bleaching with hypochlorites. (12 + 4)

Or

(b) Elaborate on various effects that can be produced through calendering.

13. (a) What are the different types of reactive dyes? Discuss on the stages involved in the application of these dyes. (4 + 12)

Or

(b) What are the different types of anthraquinone vat dyes? Discuss on the stages involved in the application of these dyes.

14. (a) Discuss on shrinkage control of knitted goods.

Or

(b) Describe the construction and working of a soft flow dyeing machine.

15. (a) Discuss on the production of screens for flat-bed screen printing machine.

Or

(b) Give the principle of working of roller, rotary screen and vacuum transfer printing machines. (6 + 5 + 5)

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