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Question Paper Code : P 1338

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2009.

Fourth Semester

Textile Technology (Fashion Technology)

FT 1255 — DYEING, PRINTING AND POLLUTION CONTROL/CHEMICAL
PROCESSING OF TEXTILE AND GARMENTS

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State the conditions to be followed in hypochlorite bleaching on cotton.
2. Mention the objectives of calendaring.
3. How do you dye polyester/viscose blends?
4. State the role of relax dryers.
5. Compare discharge printing and resist printing.
6. List out the methods used for engraving of printing screens.
7. Indicate the important finishes for silk garments.
8. Give the recipe for stone washing of garment.
9. Mention the reasons for higher BOD level in textile effluent.
10. State the environmental problems associated with garment finishing industries.

PART B -- (5 × 16 = 80 marks)

11. (a) Explain the bleaching of cotton using Sodium Chlorite. Write the differences between Sodium Chlorite and Sodium Hypochlorite bleaching. (8 + 8)

Or

- (b) Indicate the materials suitable for processing in winch dyeing machine. Explain the working principle of Winch dyeing machine. (4 + 12)

12. (a) State the different types of reactive dyes. Explain the dyeing mechanism of reactive dye on cotton. Write the advantages of reactive dyes. (4 + 8 + 4)

Or

- (b) Write the role of compactors. Explain the method of controlling shrinkage in knitted cotton fabric. (6 + 10)

13. (a) Give an account on Block printing, Roller printing and Transfer printing. (4 + 6 + 6)

Or

- (b) Explain the technique adopted for Pigment printing and Reactive printing on cotton fabric. (8 + 8)

14. (a) What is enzyme? How is enzyme activated for finishing action? Explain how enzyme wash is performed. (4 + 6 + 6)

Or

- (b) What are the ingredients needed for salt and pepper finish? Explain the mechanism of salt and pepper finishing process. (6 + 10)

15. (a) What are the types and causes of water pollution? Explain the treatments given to control water pollution. (6 + 10)

Or

- (b) Give an account on the causes and impact of Acid Rain on environment. Write a short note on Green House Effect. (8 + 8)