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**R 3374**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2007.

Fourth Semester

Textile Technology (Fashion Technology)

FT 1255 — DYEING, PRINTING AND POLLUTION CONTROL

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the limitations of sodium hypochlorite bleaching?
2. Differentiate between Winch dyeing and Jigger dyeing.
3. How fastness properties are assessed?
4. Mention the salient features of baloon drying.
5. List out the resist chemicals used in printing.
6. What are the stages involved in the making of screens for table screen printing?
7. Write the concept of salt and pepper finish.
8. What materials are used in stone wash finishing?
9. Compare BOD with COD.
10. How sludge disposal is carried out in industries?

PART B — (5 × 16 = 80 marks)

11. (a) Elaborate the mechanism of hydrogen peroxide in bleaching of cotton.

Or

- (b) What is calendering? With neat diagram, explain the working principle of steam calendering. (4 + 4 + 8)
12. (a) What are the features of soft flow dyeing machine? Explain its method of operation. (8 + 8)

Or

- (b) Write the application of J-Box in textile chemical processing. Describe the operations performed in J-box. (6 + 10)
13. (a) List out the important printing machines used in textile industries. Explain the method of operation of commercially suitable one. (6 + 10)

Or

- (b) Write the salient features of rotary screen printing. Explain, how it is suitably performed for knitted fabric. (6 + 10)
14. (a) List out the important garment finishing treatments. Elaborate the finishing operation suitable for men's cotton shirts. (6 + 10)

Or

- (b) Give reasons for wrinkle formation in garments. Suggest remedies to remove the wrinkles. (6 + 10)
15. (a) What are the main causes of pollution? Explain the methods applied to control pollution. (6 + 10)

Or

- (b) What is green house effect? Describe the influence of green house effect on the environment. (6 + 10)