

**H 1536**

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2006.

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. State the "Electro-chemical theory of dyeing".
2. Give the mechanism of Vat dyeing.
3. Enumerate the constituents of printing paste.
4. What is meant by "Dry Heat Fixation" of prints?
5. Which type of calendering machine imparts "Lustrous Silk Finish" and "Thready Appearance"?
6. What is meant by "Anti-crease finish"?
7. State the importance of testing fastness properties of dyed goods.
8. What is meant by "Limiting Oxygen Index"?
9. List out the advantages of "Enzyme Washing".
10. Enumerate the merits and limitations of garment dyeing.

PART B — (5 × 16 = 80 marks)

11. (i) Discuss in detail about the properties and application of "Azoic Dyes". (8)
- (ii) Write about modern theory of dyeing and mechanism of differential dyeing. (8)

12. (a) Give an account on "Styles and Methods" of printing. Also discuss on the methods of fixation of prints on textiles.

Or

- (b) What are the different machines used for Textile Printing? With necessary sketch, explain the working principle of Automatic Rotary Screen Printing Machine. Also discuss the merits and demerits of the same.
13. (a) What is the importance of "Anti-shrink Finish"? With necessary sketch, explain the working principle of the machine to impart the same.

Or

- (b) Write detailed notes on the following :
- (i) Starch Finish
  - (ii) Calender Finish
  - (iii) Creping
  - (iv) Softening.
14. (a) Discuss on the different fastness properties of dyed goods. Explain in detail the testing procedure for any one of them.

Or

- (b) Explain in detail the assessment of any two finishes imparted to textiles. Also give the importance of testing the same.
15. (a) What are the various finishing processes suitable for knits? Explain in detail any three of them which, you feel, have high commercial importance.

Or

- (b) What are the various machines used for Garment Dyeing? With necessary sketches explain the working principle of any two of them.
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