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B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2008.

Fifth Semester

Textile Technology

TT 1304 — TEXTILE CHEMICAL PROCESSING — I

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State the importance of carbonising of wool.
2. Outline the features of gas singeing.
3. Which bleaching agent is known as "Universal Bleaching Agent" and why?
4. Outline the mechanism of Mercerising.
5. What is Rapid Dyeing?
6. What are Red Listed Dyes?
7. Enumerate the machines suitable for processing knits.
8. List out various garment dyeing machines.
9. How do you determine colour difference ( $\Delta E$ )?
10. What is a crockmeter?

**PART B — (5 × 16 = 80 marks)**

11. (a) Explain the wet process sequence of cotton fabrics with a flow chart. (16)

Or

- (b) Write about

(i) Enzymatic desizing. (8)

(ii) Degumming of silk. (8)

12. (a) Explain about continuous scouring and Bleaching range with a suitable diagram.

Or

- (b) Write about

(i) Chain mercerisation. (8)

(ii) Hydroextractors and Dryers. (8)

13. (a) Enumerate in detail dyeing of polyester / cotton blend in detail.

Or

- (b) Write short note about

(i) Eco-friendly dyes. (8)

(ii) Problems in reactive dyeing. (8)

14. (a) Write about the working of

(i) Jigger. (8)

(ii) Jet dyeing machine. (8)

Or

- (b) Analyse the technical and economical aspects of Bale dyeing machine and Padding Mangle. (8 + 8)

15. (a) Explain about computer colour matching system and its applications.

Or

- (b) Elaborate on testing of fastness properties of coloured textiles.