

C 3421

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2007.

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 significance of wool carbonising.
2. How do you make fabrics clean, smooth and good looking?
3. Enumerate the advantages of peroxide bleaching.
4. Outline the features of soft flow dyeing machine.
5. Brief about mechanism of dyeing of cotton with reactive dyes.
6. What do you mean by Red-listed dyes?
7. How does dyeing of knits differ from that of wovens?
8. What are the precautions to be considered in dyeing of garments?
9. Briefly outline the principle of working of computer colour matching.
10. Prioritise the fastness properties required for woven shirts.

PART B — (5 × 16 = 80 marks)

11. (a) Explain about chemical processing sequence of cotton fabrics in detail.

Or

- (b) Compare different desizing methods based on technical and economic aspects.

12. (a) Describe the working of continuous scouring and bleaching range with a neat sketch.

Or

- (b) Write about the working of circular mercerising machine and steuter with neat sketches.
13. (a) Elaborate on recent developments in dyeing of natural fibres.

Or

- (b) Give a detailed note on eco-friendly dyes and chemicals relevant to textile processing.
14. (a) Discuss the mechanical and economic aspects of package dyeing machine and padding mangle.

Or

- (b) Explain about the working of any two garment dyeing machines with neat sketches.
15. (a) Explain about the application of computer colour matching system in the evaluation of dye strength, shade matching and whiteness index.

Or

- (b) Elaborate on determination of fastness properties of dyed textiles.
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