Reg. No. | | | | | | | | | | | | |

Question Paper Code : 77155

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2015.

Fourth Semester

Fashion Technology

FT 6404 – TEXTILE CHEMICAL PROCESSING – I

(Regulation 2013)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Sketch the process sequence adopted for processing P/C blends.
2. Write the operation sequence followed for processing silk and wool fabrics.
3. State the chemical changes occurring during scouring.
4. Enlist the process parameters influencing the bleaching process.
5. Why after treatment is necessary for dyed and printed goods? Justify
6. Elucidate the technical features of fabric dyeing machineries.
7. Enumerate the fabric parameters influencing the dye uptake of printing paste.
8. Compare conventional vs inkjet digital printing process.
9. How will you assess the color values of dyed and printed goods? Provide examples
10. Outline the significance of pass/fail decision making in color matching.

PART B — (5 × 16 = 80 marks)

11. (a) Investigate the wet processing sequence followed for different types of cellulosic materials with emphasis on the objectives of each operation.

Or

(b) Discuss the operation sequence adopted for wet processing of synthetic materials with emphasis on the objectives of each process.

12. (a) Analyse the process mechanism of hydrogen peroxide bleaching in textile industries.

Or

(b) Criticize the working mechanism of open and pressure kiers with a neat sketch.

13. (a) Formulate the conditions and application of acid dyes on silk and wool fabrics.

Or

(b) Discuss the process conditions and application of reactive dyes on cellulosic fabrics.

14. (a) Discuss the role and function of various printing paste ingredients.

Or

(b) Explain the various quality tools available for assessing the dyed and printed goods.

15. (a) Examine the different techniques used for the assessment of color of dyed and printed goods.

Or

(b) Criticize the fundamentals of color science and basics applied for the color matching.
