

M.TECH. DEGREE EXAMINATIONS: NOV/DEC 2010

Second Semester

APPAREL TECHNOLOGY AND MANAGEMENT

FTY607: Eco Friendly Textile Wet Processing

Time: Three Hours

Maximum Marks: 100

Answer ALL Questions:-

PART A (10 × 2 = 20 Marks)

1. State the need for eco-friendly wet processing.
2. Mention few eco-friendly enzymes used for bleaching of cotton fabrics.
3. What is biopolishing? Why it is done?
4. Give few natural dyes used for dyeing textiles.
5. List few factors affecting the quality of water.
6. Give the limit of TDS in effluent water.
7. State the objective of ecology policy.
8. What are the elements of EIA process?
9. List few carcinogenic dyes.
10. What do you mean by Oeko Tex standard?

PART B (5 x 16 =80)

11. a) What are the toxic and powerful chemicals applied in wet processing and discuss the need of eco standards and eco labels.

(OR)

- b) Discuss on the limits of chemicals for babies and general wear and also highlight the alternatives for hazardous chemicals and dyes.

12. a) What are the characteristics of effluents obtained after scouring process. Explain about the treatments that can be given to scouring effluents for recovery.

(OR)

b) Describe the problems faced in conventional dyeing, reprinting processes and highlight the developments in eco friendly processing in order to overcome the same.

13. a) Discuss the need for the quality of water for textile wet processing. Explain the causes of water pollution and its remedies.

(OR)

b) Explain a process to purify the polluted water (effluent treatment) and state the limitations of factors such as COD and BOD.

14. a) Explain the role of environmental impact assessment (EIA) and highlight the important environmental laws.

(OR)

b) Explain the importance of environmental pollution control in wet processing and write briefly on the legislation set out by the Indian Government for the Same.

15. a) What do you mean by eco-labeling and discuss the need of sensitizing dye stuff. Highlight the impact of allergic dyes and carcinogenic amines on human health.

(OR)

b) Discuss on the topic “the importance of eco-management of textile and apparel industry. State the restrictions applicable under Oeko- tex standards.
