M.TECH. DEGREE EXAMINATIONS: APRIL/ MAY 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 x 2 = 20 Marks)

1. What are the adverse affects of allergic dyes?

2. Why is the use of APEO being restricted?

3. Why are Phthalates used and what is the limit of Phthalates in children's wear?

4. What are the harmful effects of PVC?

5. What are the enzymes used for desizing of cotton?

6. What are the limitations of BOD determination?

7. What are the disadvantages of using natural dyes?

8. Why do companies have an RSL?

9. What is the advantage of counter current washing?

10. Why are low liquor ratio processing eco friendly?

PART B (5 x 16 = 80 Marks)

11. a) What are the limits of chemicals for Children's wear and outerwear garments?

(OR)

b) Discuss in detail the chemicals which are banned in textile goods and what are their ecofriendly substitutes?

12. a) What is the characteristics of effluent obtained after the desizing process? Explain about the treatments that can be given to the desizing effluent and how size can be recovered from it?

(OR)

b) Explain in detail the different techniques involved in the reduction of pollution load with suitable examples.

13. a) Explain in detail the mode of action of an enzyme. What are the advantages and disadvantages of using enzymes in scouring and its effect on the process effluent?

(OR)

b) Explain in detail the recent developments in eco friendly wet processing.

14. a) What is the objective of ecology policy and what are the elements of EIA?

(OR)

b) What are the effects of high BOD and COD in effluents? What are the tolerance limits for industrial effluent prescribed by the Bureau of Indian Standards?

15. a) What is eco labeling? What are carcinogenic amines and how do they affect the human health?

(OR)

b) Explain in detail the objective and restrictions as applicable under Oeko Tex standards.

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