

**M.TECH DEGREE EXAMINATIONS: JANUARY 2011**

First Semester

**APPAREL TECHNOLOGY AND MANAGEMENT**

FTY505: Advancements in Apparel Processing

**Time: Three Hours**

**Maximum Marks: 100**

**Answer ALL Questions: -**

**PART A (10 x 2 = 20 Marks)**

1. Write the role of enzymes in textile wet processing.
2. State the necessity of wool carbonizing.
3. What is microwave dyeing?
4. Compare 'Foam printing' and 'Digital printing'.
5. Write the recipe for durable press finish.
6. State the advantages of UV protective finish.
7. Write the significance of centrifuge dyeing machine.
8. What is the purpose of hydro dynamic circulation in dyeing?
9. Write the advantages of Eco-labels.
10. Mention any four banned dye-stuffs in textile processing.

**PART B (5 x 16 = 80 Marks)**

11. (a) (i) Discuss in detail on advancements in textile pretreatment process for cotton materials. (8)  
(ii) Elaborate the pretreatment processes carried out for silk material and state their importance. (8)  
(OR)  
(b) (i) Write the various advancements taken place in pretreatment of polyester/cotton materials. (6)  
(ii) Discuss in detail on advantages of combined stage of processing over single stage of processing. (10)
12. (a) Discuss in detail on any four advanced techniques used for garment dyeing processes. (8)  
(OR)  
(b) (i) With neat sketch explain the working principle of transfer printing techniques and state their importances. (8)  
(ii) Elaborate the printing method and application of velvet printing and digital printing. (8)
13. (a) (i) Discuss in detail on easy care finishing techniques used in cotton materials. (8)  
(ii) Write a note on bio-finishing of textiles. (8)  
(OR)  
(b) (i) Discuss in detail on application of flame retardant finish applied for cotton textiles. (6)  
(ii) Elaborate the application of micro-encapsulation techniques used in herbal finishing. (10)
14. (a) With neat sketch explain in detail on any two advanced machinery for garment dyeing. (8)  
(OR)  
(b) (i) With neat sketch explain the working principle of jet circulation dyeing machines and state their technical specifications. (10)  
(ii) Discuss in detail on double side – paddle knitwear dyeing machine. (6)
15. (a). Discuss in detail on quality control in garment processing and state their significances. (8)  
(OR)  
(b) Elaborate in detail on eco-standards and eco-labeling of garment processing as per AATCC and ISO standard method of testing. (10)