

Register Number:

.....M.TECH., DEGREE EXAMINATIONS: NOV/DEC 2010 Third Semester

**FASHION TECHNOLOGY**

FTY606: Nano Textiles & High Performance Clothing

**Time: Three Hours**

**Maximum Marks:**

**100 Answer ALL Questions:-PART A (10 x 2 = 20 Marks)**

1. Define nano scale.
2. What are high performance fibres?
3. State any two characteristics of specialty finishes.
4. What are phase changing materials?
5. Write a brief note on temperature controlled garment.
6. What do you understand by life shirts?
7. What are wearable electronics?
8. Give any two applications of wearable electronics.
9. What are nanotextiles?
10. Write a brief note on Nano-Dry®.

**PART B (5x16 = 80 marks)**

11. a) Give a detailed account of smart properties.

**(OR)**

- b) Discuss the applications of high performance fibres in Textiles.

12. a) Write a note on (i) Micro encapsulation and

(8)

(ii) Self cleaning finish.

(8)

**(OR)**

- b) (i) Give a note on Plasma treatment in textiles.

(8)

- (ii) Explain the essential requirements and desired properties of oil and water repellent finishes.

(8)

13. a) Write short notes on (i) Breathable thermo wear and (8)  
(ii) High tech cooling vest. (8)

**(OR)**

- b) Give an account of (i) Men's sports underwear and (8)  
(ii) Smart T- shirts. (8)

14. a) Explain the factors to be considered while designing a model wearable electronic garment.

**(OR)**

- b) Write a detailed account on musical jackets.

15. a) Describe the application of nanotechnology in home furnishings.

**(OR)**

- b) Discuss the applications of nanotechnology in medical apparel with suitable examples.

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