Register Number: ……………………..

M.TECH DEGREE EXAMINATIONS: JUNE 2013

Second Semester

TEXTILE TECHNOLOGY

TTX509: Clothing Comfort

Time: Three Hours   **Maximum Marks: 100**

Answer all the Questions:-

PART A (10 x 2 = 20 Marks)

1. Define : Clothing Comfort

2. Give the physiological indicators of comfort.

3. What are the methods of heat regulation?

4. What is comparative clothing?

5. Give the factors affecting heat & moisture relation in clothing.

6. Give the clothing insulation values for apparels and sweaters.

7. Define : Thermal resistance and give units.

8. State the significance of water holding property with respect to clothing comfort.

9. What are the non- thermal properties of fabrics?

10. Give some special fibers used in apparel for comfort.

PART B (5 x 16 = 80 Marks)

11. a) Discuss in detail the various factors involved in the study of clothing comfort

(OR)

b) Explain the influence of environmental ranges in achieving clothing comfort

12. a) Discuss in detail the effect of body motion, wind, and radiation towards achieving comfort in apparels

(OR)

b)   Explain the following briefly with respect to clothing system interaction with the body

    i   Clothing as quasiphysiological and air systems   (8)

    ii   Heat regulation - water accumulation in clothing   (8)

13. a)   Discuss the different approaches, factors and models systems used for studying heat and moisture relation in clothing.

(OR)

b)   Elaborate on physiological and field training of clothing – towards achieving clothing comfort.

14. a)   Explain the influence of various physical properties of clothing and clothing materials in relation to comfort.

(OR)

b)   Write short notes on

    (i)   Flammability property and its influence on apparel comfort   (10)

    (ii)   Clothing with internal spaces\   (6)

15. a)   Discuss on the differences between fibers with respect to comfort and also highlight on yarn and fabric engineering.

(OR)

b)   Highlight on the current trends and the new developments in the study of clothing comfort, also brief on test methods and systems.

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