

Register Number:

M.TECH. DEGREE EXAMINATIONS: APRIL / MAY 2010

Second Semester

TEXTILE TECHNOLOGY

TTX509: Clothing Comfort

Time: Three Hours

Maximum Marks: 100

Answer ALL Questions:-

PART A (10 x 2 = 20 Marks)

1. Define: Comfort.
2. Write about the energy transfer through evaporation.
3. What are all the automatic interactions of clothing with the motion of the body?
4. Define: Comparative Clothing.
5. Write about the clothing design in use for creating air space.
6. What do you understand by moisture regain of fibres?
7. Write the techniques used for measuring thermal resistance of a fabric.
8. Mention the formula for moisture transfer.
9. Define: Spacer fabrics.
10. Mention any two new techniques used in the study of clothing comfort?

PART B (5 x 16 = 80 Marks)

11. (a) Explain the quantities and units for description of the environment.

(OR)

- (b) Elaborate on the quantities and units to describe clothing.

12. (a) Explain the Clothing as air or modified air systems.

(OR)

- (b) Explain the heat and moisture factors in clothing and its effect on weaver comfort?

13. (a) Describe the Heat and Moisture transmission properties of Air.

(OR)

(b) Explain about the approach of using subjects for clothing comfort measurements.

14. (a) Explain in detail about Thermal Resistance.

(OR)

(b) Explain the following: (i) Water transport in clothing material. (8)

(ii) Water holding properties. (8)

15. (a) Describe the subjective studies of fiber differences in clothing fabric.

(OR)

(b) Explain the current trends and new developments in the study of clothing.
