

Register Number: .....

**M.TECH DEGREE EXAMINATIONS: NOV / DEC 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. Name the parameters involving environmental aspects in clothing.
3. What do you mean by Quasi-physiological clothing system?
4. Define effect of curvature.
5. Write the relationship between transmission properties of heat and moisture in air.
6. State the term clothing insulation.
7. Write the effect of water holding property in clothing.
8. What do you mean by water vapour diffusion resistance?
9. List out the non-thermal properties of clothing.
10. What do you mean by the concept of similar fabrics?

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

11. (a) (i) List out the non-thermal components of clothing. (4)  
(ii) Explain how the physiological factors are necessary for the comfort of clothing. (12)  
(OR)  
(b) Elucidate the environmental changes and related clothing requirements.
12. (a) Discuss briefly about comparative clothing. Explain the common functional description of clothing.  
(OR)  
(b) Explain the behaviour of clothing materials interaction with the body motion, wind and radiation.
13. (a) Explain in detail about heat and moisture transmission properties of clothing.  
(OR)  
(b) Describe the various clothing measurements which require situation for living subjects.
14. (a) Elucidate in detail about different procedures for radiation exchange of clothing materials in relation to comfort.  
(OR)  
(b) Discuss in detail about thermal resistance and flammability properties of clothing materials.
15. (a) Explain briefly about the advances in yarn and fabric engineering suitable for clothing with respect to comfort.  
(OR)  
(b) Elaborate the various special fibres used for special applications by improving comfort on clothing materials.

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