

**B.TECH. DEGREE EXAMINATIONS: APRIL / MAY 2010**

Sixth Semester

**TEXTILE TECHNOLOGY (FASHION TECHNOLOGY)**

U07FT604: Clothing Science

**Time: Three Hours**

**Maximum Marks: 100**

**Answer ALL the Questions:-**

**PART A (10 x 1 = 10 Marks)**

1. Hygral expansion of fabric is a property related to
  - a. Shrinkage of fabric
  - b. Friction of fabric
  - c. Felting of fabric
  - d. Swelling of fabric
2. Felt shrinkage mechanism is specify to
  - a. Polyester fibre
  - b. Nylon
  - c. Wool
  - d. Poly propylene
3. Pilling is a condition which is commonly observed in
  - a. Cotton fabric
  - b. Jute fabric
  - c. Silk fabric
  - d. Polyester blended fabric
4. Croak resistance is a term used to denote
  - a. Wash fastness
  - b. Corrosion strength
  - c. Rubbing fastness
  - d. Launder ability
5. To judge the color fastness of a fabric we use
  - a. Pilling tester
  - b. Abrasion tester
  - c. Gray scales
  - d. Tinto meter
6. Color fastness to light in measure by using
  - a. Xeon Arc
  - b. Rubbing
  - c. Milling
  - d. Felting
7. To find out the ability of a fabric to hang in a graceful curve we can use
  - a. Crease recovery tester
  - b. Stiffness tester
  - c. Thickness tester
  - d. Drape meter
8. The term KES to refers to
  - a. Thickness testing
  - b. Friction testing
  - c. Rubbing testing
  - d. Handle of fabric
9. The term "Conduction" of a fabric refers
  - a. Insulation
  - b. Water proofing
  - c. Evaporation
  - d. Heat loss
10. Air permeability of a fabric is a measure of
  - a. Ability to allow air
  - b. Radiation
  - c. Resistance to heat
  - d. Convection

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

11. What do you understand by relaxation shrinkage?
12. What are the methods by which dimensional stability of fabric can be measured?
13. Define Snagging
14. Why knitted fabrics are tested for bursting strength?
15. How will you asses the abrasion resistance of a fabric?
16. What are the light sources that are used to test the light fastness?

17. What is the basic concept used in Shirley Stiffness Tester?
18. Define Crease recovery of the fabric.
19. What are the fabric properties that are important to maintain thermal comfort?
20. Name the instrument used to measure the thermal conductivity?

**PART C (5 x 14 = 70 Marks)**

21. (a) Describe WIRA Steaming Cylinder method for measuring Dimensional Stability.  
(OR)  
(b) How will you measure Relaxation Shrinkage using IWS Method?
22. (a) Explain the method of testing Pilling using ICI Pillbox.  
(OR)  
(b) What are the factors affecting Abrasion Testing of Fabric?
23. (a) Outline various methods of Colour Fastness to Washing, Perspiration and Seawater.  
(OR)  
(b) What are the various characters of the fabric that are involved in the Evaluation of handle using KES System?
24. (a) Define Drape, How will you find the Drape Coefficient using Cusick Drape Test.  
(OR)  
(b) Explain in detail the four mechanism that allow the body to lose heat to the outside atmosphere.
25. (a) Describe the cup method for the measurement of water vapor permeability.  
(OR)  
(b) What do you understand by the term Wicking? How will you measure the Wicking property using a simple Column of water?

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