

Register Number:

B.TECH., DEGREE EXAMINATIONS: MAY/JUNE 2013

Sixth Semester

FASHION TECHNOLOGY

FTY116 : Clothing Science

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. Fabric appearance is influenced by
 - a) Yarn count
 - b) Yarn evenness
 - c) Yarn strength
 - d) Yarn elongation
2. Shade variation is caused by
 - a) Improper dyeing
 - b) Fabric construction
 - c) Fiber structure
 - d) Improper selection of fibre
3. Serviceability of fabrics is affected by
 - a) Fabric weight
 - b) Fabric appearance
 - c) Fabric colour
 - d) Fabric strength
4. Seam slippage is due to
 - a) Yarn hairiness
 - b) Incorrect seam and sewing thread
 - c) Coarser yarn count
 - d) Finer fibres
5. Dimensional stability is associated with
 - a) Fabric shrinkage
 - b) Fabric strength
 - c) Fabric design
 - d) Fibre maturity
6. Solvent used in dry cleaning is
 - a) Acetone
 - b) HCL
 - c) NaOH
 - d) Tetra chloro ethylene
7. Fabric handle is related to
 - a) Fabric weight
 - b) Fabric feel
 - c) Fabric strength
 - d) Fabric colour

8. KES and FAST is used for measuring
- a) Subjective evaluation of fabric hand
 - b) Fastness properties of fabric
 - c) Objective evaluation of fabric hand
 - d) Luster of fabric
9. Fabric comfort is not affected by
- a) Fibre properties
 - b) Yarn structure
 - c) Fabric design
 - d) Yarn strength
10. Breathability refers to
- a) Moisture comfort
 - b) Thermal comfort
 - c) Pressure sensations
 - d) Tactile comfort

PART B (10 x 2 = 20 Marks)

- 11. What are the fibre properties that affect pilling?
- 12. How will you measure shade variation?
- 13. What do you understand by the term crock resistance?
- 14. List the factors that affect seam strength.
- 15. Define: Hygral expansion
- 16. What is dry cleaning?
- 17. What type of fabric construction gives better drape?
- 18. Give few fabric properties that are measured in KES?
- 19. Define: Thermal comfort in fabrics
- 20. Differentiate between wetting and wicking

PART C (5 x 14 = 70 Marks)

21. a) Explain the effect of fiber, yarn structure and fabric construction on fabric appearance.
- (OR)**
- b) (i) Discuss briefly on pilling and fastness properties of fabrics (7)
 - (ii) State the influence of fibre, yarn and fabric properties on fabric lusture (7)
22. a) Discuss briefly on snagging, fusing and static electricity with respect to serviceability of fabrics

(OR)

- b) Explain the influence of fibre properties, yarn structure and fabric design on seam strength and seam slippage of fabrics

23. a) Give the methods of measurement of dimensional stability of fabrics with relevant diagrams.

(OR)

- b) (i) Discuss briefly on hygral expansion and felting shrinkage with respect to dimensional stability of fabrics (7)
(ii) State the influence of fibre properties and chemical treatments on dimensional stability of fabrics. (7)

24. a) Explain the effect of fiber properties, yarn structure and fabric construction on bending and crease recovery of fabrics

(OR)

- b) (i) Discuss in detail the objective evaluation of fabric hand using KES (10)
(ii) Differentiate between KES and FAST. (4)

25. a) Discuss the effect of fiber properties, yarn structure, fabric construction and treatments on thermal conductivity and moisture transport of fabrics.

(OR)

- b) Explain any one method to measure thermal insulation and moisture transport properties of fabrics.
