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V 4181

B.E/B.Tech. DEGREE EXAMINATION, APRIL/MAY 2008.

Eighth Semester

Textile Technology (Fashion Technology)

FT 1012 – CLOTHING SCIENCE

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State the role of fabric structure on its appearance.
2. Write a note on piling properties of fabric.
3. How the fibre properties influences the drapability of a fabric?
4. State the relation between yarn structure and moisture absorption.
5. Brief about bursting strength of knitted fabric.
6. What do you mean by thermal protective fabric?
7. State the ASTM standards for flame returdency testing.
8. Give the relationship between fibre properties and crease recovery of fabric.
9. How do you obtain antipilling effect on a fabric?
10. State the various steps involved in fabric engineering.

PART B — (5 × 16 = 80 marks)

11. (a) Briefly discuss about the various aspects involved in selection of fibre for better fabric appearance.

Or

- (b) Critically analyse the fibre structure and yarn structure on fabric appearance.

12. (a) Critically analyse the fibre properties on the fabric properties such as air permeability and bending rigidity.

Or

- (b) Briefly discuss the various aspects involved in selection of yarn structure for better comfort properties of fabric.

13. (a) Discuss in detail, the yarn structure and fabric design on tensile and tearing strength of fabric.

Or

- (b) Critically analyse the fibre properties on strength of the fabric.

14. (a) Briefly discuss about the evaluation of resistance to mill dew, ageing, chemical and electrostatic properties of fabric.

Or

- (b) Analyse the influence of fibre properties on shrink ability of fabric.

15. (a) Briefly discuss about the various aspects involved in designing of fabric from fibre.

Or

- (b) Clearly bring out the various finishing treatments given to the fabric to enhance the performance of the fabric.