

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2005.

Seventh Semester

Fashion Technology

TT 057 — PROTECTIVE GARMENTS

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Why woolen clothing is preferred in winter season?
2. Why Kerlar and spectra are used in ballistic protection?
3. Give few applications of flexible composite yarns structures?
4. What precaution should be taken during wearing of glass fibres?
5. Why do surfaces coated with repellent chemical repel water?
6. What are the different mechanism of action of antimicrobial agents on microbes?
7. What are requirements of fabric for producing heat resistant gloves?
8. Differentiate water repellent, water proof and water proof breathable coatings.
9. What is thermal conductivity? Give thermal conductivity of few fibres.
10. What are the different test methods for evaluating anti microbial finishes?

PART B — (5 × 16 = 80 marks)

11. (i) Discuss in detail how selection of fibres and various properties of fibres are taken into consideration before designing extreme winter clothing. (8)
- (ii) Discuss in detail how high performance fibres act as effective shield against ballistic forces. (8)

12. (a) Explain in detail the various applications of flexible textile composite systems.

Or

- (b) Discuss elaborately how yarn and fabric parameters are taken into consideration while designing clothes for thermal comfort.

13. (a) Explain in detail the various method of application of antimicrobial finisher.

Or

- (b) Explain in detail the various methods of application of fire retardent finishes.

14. (a) Discuss in detail the production and application of various coated or laminated textile systems.

Or

- (b) Discuss in detail the recent developments in 3D structures.

15. (a) Write short notes on :
- (i) Evaluation of resistance to milden
  - (ii) Evaluate of resistance to sunlight.

Or

- (b) Write short notes on :
- (i) Evaluation of electro static and electrical resistivity of textiles.
  - (ii) Evaluation of impact performance of textiles.