

M.TECH DEGREE EXAMINATIONS: JUNE 2013

Second Semester

APPAREL TECHNOLOGY AND MANAGEMENT

FTY602: Protective Clothing

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 2 = 20 Marks)

1. Why are Basofil suits used for firefighting personnel?
2. Distinguish between water proof and water repellency.
3. State the important factors to be considered while designing a thermal insulation garment.
4. State the properties of Zylon.
5. State the end uses of ripstop silver fabric.
6. What is the speciality of Demron?
7. Classify bandages.
8. What is the basic function of wound care material?
9. Write any two test methods for evaluation antimicrobial property of textiles.
10. What are the properties required for textiles to be used in hospital garments?

PART B (5 x 16 = 80 Marks)

11. a) Discuss in detail how selection of fibres and properties are considered in designing an extreme winter clothing.

(OR)

- b) Explain in detail the requirement and functions of Military textiles.

12. a) Elaborate on requirements of fibres for thermal protection. Give properties of any four fire retardant fibres.

(OR)

- b) Discuss in detail the combustion mechanism of fibres and mention different techniques of arising it.

13. a) Explain in detail the concept of electromagnetic radiation protection using textiles.

(OR)

b) Discuss in detail the various textile protective materials used in nuclear protection.

14. a) Elaborate on material selection and production techniques for sanitary napkins.

(OR)

b) Write note on i) surgical wound dressing ii) bedding

15. a) What are the requirements of textiles used in hospital garments? Explain on application of antimicrobial finishes for textiles.

(OR)

b) Elaborate on evaluation of hospital textiles.
