

Register Number:

M.TECH DEGREE EXAMINATIONS: NOV / DEC 2010

Second Semester

TEXTILE TECHNOLOGY

TTX508: Non Woven and Technical Textiles

Time: Three Hours

Maximum Marks: 100

Answer ALL Questions:-

PART A (10 x 2 = 20 Marks)

1. What is typical curing condition for chemical bonding?
2. What is flash spinning?
3. What is melting blown?
4. State the various technical textile applications of nonwoven fabrics.
5. What are the filtration requirements?
6. What are basic types of construction used for dust collectors?
7. State the physical requirements for military textiles?
8. What are textile materials used for ballistic protection?
9. Write a short note on "Seat belts"
10. State the flame –retardant textile in military use.

PART B (5 x 16 = 80 Marks)

11. (a) Describe the process of melt blown and state their advantages.
(OR)
(b) Discuss the stitch bonding techniques
12. (a) Describe the working principle of air laying with help of neat sketch
(OR)
(b) Describe the working principle of wet laying with help of neat sketch
13. (a) Explain the dust collection theory and principles
(OR)
(b) Discuss the fabric constructions and properties for filtration
14. (a) Discuss the various water vapour permeability materials.
(OR)
(b) Describe the various textile materials for biological and chemical war protection in defense.
15. (a) Discuss the transportation textiles materials
(OR)
(b) Discuss the AGRO textiles material construction details, properties and Applications
