

M.TECH. DEGREE EXAMINATIONS: NOVEMBER 2009

Third Semester

TEXTILE TECHNOLOGY

P07TXE21 Technology of Nonwovens

Time: Three Hours

Maximum Marks: 100

Answer ALL Questions:-

PART A (10 × 2 = 20 Marks)

1. Define nonwovens.
2. Enlist the raw materials used in the production of nonwovens.
3. Enumerate the essential properties required for a binder.
4. What is dry-lay process?
5. Outline the features of hydro entanglement process.
6. What is hot air bonding?
7. What is glazing finishing of nonwovens?
8. Brief about standards related to testing of nonwovens.
9. Enumerate the uses of nonwovens in cleaning products.
10. Brief about the importance of nonwoven product development.

PART B (5 × 16 = 80 Marks)

11. (a) Write about development of nonwovens industry in detail.

(OR)

- (b) Elaborate on wet-lay process with relevant sketches.

12. (a) Explain in detail about needle punching process with a neat sketch.

(OR)

- (b) Give a detailed note on ultrasound bonding and spray bonding. (8 + 8)

13. (a) Write in detail about compacting and softening of nonwovens. (8 + 8)

(OR)

- (b) Explain about testing of raw materials and finished nonwoven fabrics. (8 + 8)

14. (a) Give a detailed note on applications of nonwovens in hygiene products and home textiles. (8 + 8)

(OR)

(b) Write about reuse of nonwovens and nonwovens in technical applications. (8 + 8)

15. (a) Explain about nonwoven product development for garments in detail.

(OR)

(b) Discuss about techno-economics of nonwoven products elaborately.
