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T 3485

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

Sixth Semester

Textile Technology

TT 1006 — NON-WOVEN FABRICS

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is the purpose of binding agent?
2. What is adhesive bonding?
3. Why is polypropylene fibres preferred in diaper non wovens?
4. Compare dry lay and wet lay process.
5. What are the disadvantages of bonding by needling?
6. Differentiate between gel and non gel foam used for non wovens.
7. Why is antistatic finishing required?
8. What is the purpose of giving hygiene finishing?
9. How can pore volume in non wovens characterized?
10. Name any two physical test done on non wovens.

PART B — (5 × 16 = 80 marks)

11. (a) Describe in detail the mechanism of parallel and cross web laying.

Or

(b) Enumerate in detail the machines used for aerodynamic weblaying.

12. (a) Explain in detail different types of binder fluids and its influence on properties of non woven fabrics

Or

(b) Explain in detail how foamed binder fluids are produced and applied on fabrics.

13. (a) Explain detail the production of bonded fabrics by spun bonding process.

Or

(b) Enumerate in detail the various methods by which cohesive bonding can be achieved.

14. (a) Bring out an overview on various types of foam coating on non wovens.

Or

(b) Elaborate in detail the different types of lamination of non wovens.

15. (a) Write short notes on (testing of non wovens for)

(i) Flammability

(ii) Biocompatibility

Or

(b) Write short notes on :

(i) Water vapour permeability

(ii) Fastness to water.