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C 3515

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 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. Where and when the first adhesive bonded fabric was commercially produced?
2. Outline the advantages of man-made fibers in the production of non-Wovens.
3. State the factors influencing uniformity characteristics of Web.
4. How will you measure the fiber orientation in the Web?
5. What is the principle of stitch bonding technique?
6. What is agglomerate structure?
7. What are all the end uses of spun bonded fabrics?
8. What do you mean by slitting?
9. Briefly mention the problems encountered in testing of non-Woven fabrics.
10. What are the essential tests to be carried out on non-Woven fabrics used external medical application?

PART B — (5 × 16 = 80 marks)

11. (a) Classify different types of non-Wovens according to their end uses.

Or

- (b) Discuss the suitability of High performance fibers used for Non-Woven fabrics.

12. (a) What are the various fiber Web laying techniques? Explain briefly about each technique.

Or

- (b) Explain the fiber characteristics to be considered while making web preparation and bonding.

13. (a) Explain the thermal bonding method of producing bonded fabrics. State the important process parameters that need to be controlled during thermal bonding.

Or

- (b) Explain the principle of chemical bonding. Discuss the important parameters which decides the final product.

14. (a) Explain the various finishes given to non-woven fabrics, both dry finish and wet finish.

Or

- (b) Discuss about spun bonding technique with suitable sketches. State the properties and end uses of such fabrics.

15. (a) Explain various non-Woven fabric testing with reference to Geo-Textile application.

Or

- (b) Explain any four properties of non-Wovens to be tested for industrial application.