

H 1630

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2006.

Seventh Semester

Textile Technology

TT 045 — BONDED FABRICS

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define laminated fabrics.
2. Outline the advantages of man made fibers in the production of non wovens.
3. What is spun lacing technique?
4. List out the factors influencing uniformity characteristics of web.
5. List out different web bonding techniques.
6. What is an agglomerate structure?
7. What is the principle of stitch bonding technique?
8. List out the factors influencing bonded fabric structure.
9. Outline the applications of bonded fabrics in geotextiles.
10. Outline the features of meltblown bonded fabrics.

PART B — (5 × 16 = 80 marks)

11. (i) List out different web preparation techniques. (4)
(ii) Discuss the different methods of web preparation techniques. (12)
12. (a) Classify different types of non-wovens according to their uses how will you select the raw material.

Or

- (b) Explain the important types of raw materials normally used for the production of bonded fabrics along with their properties. Indicate the suitability of high performance fibers for the production of non wovens.

13. (a) What is a point structure? Give an account of various non woven fabric structure.

Or

- (b) What are different non woven structure? Give an account of the influence of bonded fabric structure on its properties.
14. (a) Explain the working of needle punching machine with necessary sketches. Also state the properties of such fabrics.

Or

- (b) Discuss about spun bonding technique with suitable sketches. Also state the properties of such fabrics.
15. (a) What are thermal bonded fabrics? Give an account of its production and its end uses.

Or

- (b) Explain about various chemical bonding techniques in detail.
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