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Roll No.							

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(Textile Engg.) (2011 Onwards) (Sem.–6) NON WOVEN TECHNOLOGY Subject Code : BTTE-605 M.Code : 71739

Time: 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Answer briefly :

- a) Define Nonwoven fabrics.
- b) What do you understand by punch density?
- c) What are various types of binders used in chemical bonding of webs?
- d) Differentiate between partial bonding and gradual bonding.
- e) Nonwoven fabrics can be produced at a very cheap rate, but we do not find any applications in apparels. Why?
- f) Compare the rates of production for different methods of fabric production.
- g) How do you produce structured fabrics using needle punching technology?
- h) Differentiate between a regular barb and close barb needle.
- i) Give two applications each of needle punched and wet laid fabrics.
- j) What are the bonding techniques available for bonding a spunlaid web?



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SECTION-B

- 2. Classify nonwoven fabrics on the basis of their bonding methods and application areas.
- 3. Compare the stress strain behavior of needlepunched fabric with the woven fabric.
- 4. Discuss various types of fibres used in nonwoven technology. What properties of these fibres make them suitable for nonwoven fabrics?
- 5. Explain the working of Archana Stitch bonding machine with the help of a neat diagram.
- 6. What is thermal bonding? Discuss the effect of fibre structure on the properties of thermal bonded fabrics.

SECTION-C

- 7. a) Explain the working of needle punching machine with the help of a neat diagram.
 - b) Discuss various developments in the needle punching technology.
- 8. Describe the Melt blowing technique with the help of neat diagram. Analyze the effect of different parameters on the properties of melt blown fabrics.
- 9. Describe various methods of dry laying and wet laying of the webs. How does the laying of web affect properties of the needled fabric?

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.