

Roll No.

8895

Printed Pages : 2

BT-8 / M-17

NON WOVEN TECHNOLOGY

Paper-TT-434 A (Elective-IV)

Time allowed : 3 hours]

[Maximum marks : 100

Note : Attempt five questions selecting at least one question from each unit.

Unit-I

1. Define and classify non-woven fabrics. Mention the characteristics of major fibres used for non-woven. Explain parallel laying and cross laying techniques with suitable figures. 4+6+10
2. (a) Discuss Aero-dynamic laying and wet laying techniques of web formation with neat and clean diagram. 10
(b) Discuss spun-bond technique and melt blown technique with the help of suitable diagram. 10

Unit-II

3. Discuss the basic mechanism of needle punching machine in binding nonwovens. Also discuss different parameters considered in needle punching machine for producing nonwoven with their role in influencing structure and properties. 20

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4. What is stitch bonding ? Discuss Maliwatt and Malivlies stitch bonding techniques. 20

Unit-III

5. What are the characteristic properties required for bonding agents ? Discuss the various bonding techniques. 6+14
6. Discuss methods of bonding nonwoven fabrics by using hot and cold calendaring technique along with the factors affecting properties of calendar bonded products. Discuss the advantage of thermal bonding over chemical bonding. 15+5

Unit-IV

7. Discuss in detail the various wet finishing processes of nonwovens. Write a short note on defects occurring in non-woven fabrics. 15+5
8. Briefly discuss the chemical finishes applied on nonwoven with their potential application area and real life examples. What is creeping and glazing ? 15+5

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