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NON-WOVEN TECHNOLOGY

TT-423

Time: Three Hours]

[Maximum Marks: 100

Note: Attempt Five questions in all, selecting at least one question from each Unit. All questions carry equal marks.

Unit I

- (a) What are major fibers used for manufacturing of nonwovens? Discuss the major application area of nonwoven fabrics in brief.
 - (b) Differentiate between woven and nonwoven
 - fabric. Classify nonwoven fabrics and give the brief idea of different techniques you have mentioned in your classification. 10
- 2. (a) Discuss the techniques of formation Parallel laying and Cross laying web by carding methods. How do properties of fabric change with above techniques?
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(b) Compare spun-bond technique and melt blown technique. What are the major advantages of both techniques? 10

Unit II

- 3. (a) "The structure and property of needle punch fabric depends on various factors." Discuss in detail.
 - (b) With the help of suitable diagram explain the basic mechanism of binding nonwoven fabrics in needle punching machine. 10
- 4. Compare stitch bonding techniques in between 'with binding threads' and 'without binding threads' and describe the method of manufacturing nonwoven fabrics by stitch bonding technique 'with binding thread system' on a Malivlies machine. 20

Unit III

What are the characteristics required for a good binder? What are the different forms of binder?
 Discuss in brief methods of bonding nonwoven fabrics by different binding agents.

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- 6. (a) What are the factors that affect the property of calender bonded products? Discuss in brief methods of bonding nonwoven fabrics by using hot calendering technique. 15
 - (b) Discuss the fusion bonding technique in brief.

Unit*IV

- 7. (a) What type precautions are required for each type of chemical finishing of non-woven fabric?
 10
 - (b) Discuss in brief the different methods of chemical finishing on non-woven fabric. 10
- 8. (a) What are differences between water absorbency and water repellent? How can you measure these properties for nonwoven fabric?
 - (b) What are the defects normally occurred during nonwoven production? Explain with the help of suitable diagram. 10