

- Q.24 Describe the production process of wet laid non woven fabrics with special features.
- Q.25 What are the different bonding techniques used in non woven fabric production? Explain with examples.

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**6th Sem.
Branch : Textile Design
Sub.: Non-Woven Technology**

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (6x1=6)

- Q.1 Nonwoven fabrics are made by
- a) Weaving
 - b) Knitting
 - c) Bonding fibers directly
 - d) All of the above
- Q.2 Which of the following is NOT a web forming technique?
- a) Carding
 - b) Spinning
 - c) Parallel laid web
 - d) Cross laid web
- Q.3 The bonding process where fibers are mechanically entangled using barbed needles is called
- a) Thermal bonding
 - b) Chemical bonding
 - c) Needle punching
 - d) None of these
- Q.4 Wet laid non wovens are mainly made from
- a) Synthetic fibers
 - b) Natural and synthetic fibers
 - c) Only wool fibers
 - d) None of these

- Q.5 Which of the following is an application of hydro entangled non wovens?
- Carpets
 - Wipes and medical fabrics
 - Denim Fabric
 - Jeans
- Q.6 Thermal bonding of non wovens is done using
- | | |
|--------------|----------------|
| a) Heat | b) Water |
| c) Adhesives | d) Electricity |

SECTION-B

- Note: Objective/Completion type questions. All questions are compulsory.** **(6x1=6)**
- Q.7 Hydro entangled non wovens use water jets for bonding. (True / False)
- Q.8 The process of forming non woven webs using water suspension is called _____.
- Q.9 Chemical bonding of non wovens involves the use of adhesives. (True / False)
- Q.10 The bonding method that uses ultrasonic energy is called _____ bonding.
- Q.11 Needle-punched non wovens do not require fibers to be bonded together. (True / False)
- Q.12 In non woven fabric production, the _____ process involves layering the fibers before bonding.

SECTION-C

- Note: Short answer type Questions. Attempt any eight questions out of ten Questions.** **(8x4=32)**
- Q.13 Define non woven fabric and explain its historical background.
- Q.14 What are the different stages in nonwoven fabric manufacturing?
- Q.15 Differentiate between parallel laid web and cross laid web.
- Q.16 Explain the classification of non wovens based on web formation.
- Q.17 What are the raw materials used in wet laid non woven production?
- Q.18 Write a short note on Spun - laced non wovens.
- Q.19 Explain mechanical bonding and its types.
- Q.20 What is thermal bonding? Describe its different methods.
- Q.21 What is stitch bonded non woven fabric? Mention its applications.
- Q.22 Explain the advantages and disadvantages of hydro - entangled non wovens.

SECTION-D

- Note: Long answer questions. Attempt any two questions out of three Questions.** **(2x8=16)**
- Q.23 Explain in detail the different web formation techniques in non woven fabric production.