

- 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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222563B

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?

- a) Carpets
- b) Wipes and medical fabrics
- d) Denim Fabric
- d) 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.