

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2022
(Third Semester)

Branch – COSTUME DESIGN & FASHION

DISCIPLINE SPECIFIC ELECTIVE – I : NON WOVEN

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 1 = 10)

- Which fibers are the most widely used in the non woven industry?
 - Jute
 - Cotton
 - Silk
 - Linin
- State the most important vegetable fiber used to produce nonwoven bonded fabrics.
 - Natural
 - Manmade
 - Both
 - None of the above
- Which is called hear of spinning?
 - Carding
 - Stripping
 - Raising
 - Weaving
- Which one is the protein fiber among the below mentioned fibers?
 - Jute
 - Cotton
 - Silk
 - Wool
- Choose an ironing process that adds sheen to the fabric.
 - Shearing
 - Weighting
 - Calendaring
 - Embossing
- Which process that actually melts the web together at fibre crossover points?
 - Thermal bonding
 - Foam Bonding
 - Spray bonding
 - Print bonding
- Which is the process where atoms or molecules combine or bond together, usually to form a new material?
 - Chemical bonding
 - Thermal Bonding
 - Spray Bonding
 - Foam Bonding
- What are made up of the continuous process of fibres spun and directly dispersed into a web-like deflector or can be directed with air streams?
 - Melt bond
 - Spun Bond
 - Both
 - None of the above
- Find how many micro diameter in spunbond, thermoplastic fibre forming polymer is extruded to form fine filaments fibres.
 - 21-15C
 - 15-35
 - 15-25C
 - 25-35C
- Find a textile plays an important role to yield asthetic as well as functional properties to the goods.
 - Physical Finishing
 - Chemical Finishing
 - Mechanical Finishing
 - Thermal finishing.

Cont...

SECTION - B (35 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 7 = 35)

- 11 a Define non-wovens in details.
OR
b State various methods of fabric formation.
- 12 a Illustrate and explain Structure of carding machine.
OR
b Discuss about dry laid process and parallel lay process.
- 13 a State various types of bonding techniques used for production of Non-wovens.
OR
b State properties of chemical bonded non-woven.
- 14 a Explain process sequence of Spun bond technology.
OR
b Explain process sequence of Melt blown technology.
- 15 a What are methods of applying mechanical finishes?
OR
b Define Shrinking and its process.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 Detail note on non woven , raw materials and elements of non woven.
- 17 Explain the web formation process for staple fibers for production of non-woven.
- 18 Explain needle punched non-woven fabric production with the help of a neat diagram.
- 19 Explain production of non-woven by spun bond technology. State the characteristics of this fabric.
- 20 Detail note on Mechanical finishing.

Z-Z-Z

END