18CDP15A

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2022
(Third Semester)

Branch – **COSTUME DESIGN & FASHION**

DISCIPLINE SPECIFIC ELECTIVE - I: NON WOVEN

Time: Three Hours Maximum: 50 Marks

SECTION-A (5 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** marks (5 x 1 = 5)

1 Camel back laying and horizontal laying are the two types of ____.
(i) Cross lay (ii) Perpendicular lay
(iii) Parallel lay (iv) All of these

2 Spunlacing is also knowns
(i) Hydroentanglement (ii) Needle punching
(iii) Thermal bonding (iv) Spun bonding

3 Thermoplastic fibres alone or blends containing thermoplastic fibres are suitable for
(i) Hydroentanglement (ii) Needle punching
(iii) Thermal bonding (iv) Spun bonding

4 The fabric shrinkage is one of important disadvantages of _____ drying method.
(i) Drum & Belt (ii) Stenter
(iii) Infra red (iv) All of these

5 _____coating is carried out to produce patterned coatings.
(i) Rotogravure coating (ii) Knife doctor coating
(iii) Extrusion (iv) Mouldable

SECTION - B (15 Marks)
Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks (5 x 3 = 15)

6 a. Illustrate the fibres used for making of non wovens.
OR
b. Discuss about the products made from non wovens.

7 a Explain about carding process.
OR
b Discuss about benefits and limitations of air lay process.

8 a Discuss about the principle of hydro entanglement process.
OR
b State the methods of drying.

9 a State the raw materials used for spun bonding technology.
OR
b Analyze the differences between spun bond and melt blown technology.

10 a Explain about the creation and removal of distortions.
OR
b Discuss about lamination process.

Cont...

SECTION -C (30 Marks)

Answer **ALL** questions
ALL questions carry **EQUAL** Marks (5 x 6 = 30)

11 a Assess the elements of non wovens.

OR

b Enumerate about the structure of fibre webs.

12 a Categorize the types of web stacking processes.

OR

b Appraise about wet lay process.

13 a Elucidate about thermal bonding process.

OR

b Analyze the methods of binder applications.

14 a Analyze the impact of Key process factors in spun bond nonwoven technology.

OR

b Interpret the process sequence of melt blown technology.

15 a Assess the various types of mechanical finishes applied to non wovens.

OR

b Appraise the various methods of coating.

Z-Z-Z END