

**Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University)Coimbatore-641043.**

**Master's Degree Examination – November 2018
III Semester**

**Class : II PG
Major : BIO TEXTILES /Textiles and Fashion Apparel**

**Time: 3 hours
Max. Marks: 60**

17MBXC16/17MTFC16 Non woven Textiles

Part A

10 x 1/2 = 5

Choose the correct answer

1. Fabric formed by bonding of fibers by chemical, mechanical or heat is
a. Woven b. Knitting c. Microencapsulation d. Non wovens
2. Staple fiber webs are produced by
a. Melt blown b. Spun bonding c. Both a & b d. Dry forming
3. Which of the following web has very less strength in the crosswise direction
a. Cross laid b. Parallel laid c. Random laid d. Melt blown
4. Choose the fiber used for making nonwovens
a. Polypropylene b. Polyester c. Cotton d. Nylon
5. Needle punching is
a. Chemical bonding b. Thermal bonding c. Mechanical bonding d. Spun bonding
6. Mechanical intertwining of fibers by water jets
a. Needle punching b. Hydroentanglement c. Calender bonding d. Extrusion bonding
7. Separation, filtration, reinforcement are properties expected from
a. Geotextiles b. Agro textiles c. Mobile tech d. Indu tech
8. Which of the following is ecofriendly products
a. Oeko tech product b. Agro product c. Geo product d. Indu product
9. Nono silver is used to impart ----- finish
a. Antibacterial b. Antistatic c. Water repellent d. Fragrance
10. Chitosan is a
a. Nano particle b. Composite c. Bio material d. Non woven

Part B

5 x 4 = 20

Answer ALL questions

Each answer should not exceed 200 words or one page

11.a. What are non wovens?

(Or)

11.b. Explain fiber geometry

12.a. Draw neat sketch parallel laid web formation

(Or)

12.b. Describe cross laid web formation

13.a. Explain chemical bonding

(Or)

13.b. Explain the principles of thermal bonding

14.a. Classify technical textiles

(Or)

14.b. Application of nonwoven in industrial textiles

15.a. Explain nano material

(Or)

15.b. What are composites? and its application.

Part C

5 x 7 = 35

Answer ALL questions

Each answer should not exceed 600 words or three pages

16.a. Discuss about the elements of non wovens

(Or)

16.b. Describe the basic nonwoven processes and their sequence

17.a. Explain the fiber preparation for non wovens

(Or)

17.b. Elaborate the airlay and wet lay process

18.a. Differentiate melt blown and spun bonding

(Or)

18.b. Explain mechanical bonding in detail

19.a. Application of non woven in buildtech and geotech

(Or)

19.b. What is oekotec? Describe the application of nonwovens in agro textiles

20.a. Describe the properties and application of Bio materials

(Or)

20.b. Discuss the properties and application of nano particles