



## Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD (now MoE)

Re-accredited with A++ Grade by NAAC. CGPA 3.65/4, Category I by UGC

Coimbatore - 641 043, Tamil Nadu, India

### Master's Degree Examination – May 2025

#### II Semester

Class : I P.G.

Major : IDRM/FSN/FSMD/Artificial Intelligence/M.C.A./Zoology

Time: 3 Hours

Max. Marks: 100

#### 23MTFI01 Fundamentals of Textiles

##### Course Outcomes:

CO1: Identify the fiber, yarn and fabric forming methods.

CO2: Relate the difference between different fiber and fabric.

CO3: Describe different finishes on textiles.

CO4: Understand application of textiles in different field.

CO5: Elaborate different techniques in making fabric and non wovens.

##### Part A

10 x 1 = 10

##### Choose the Correct Answer

1. An example of synthetic fibre  
a. Wool      b. Nylon      c. Hemp      d. Jute      CO1K1
2. Silk is produced by  
a. Adult Moth      b. Cocoon      c. Worm      d. Larva      CO1K2
3. Spinning of yarns means  
a. Denier      b. Twisting      c. Tex      d. Pulling      CO2K1
4. The short length man-made yarns are called \_\_\_\_\_ yarns.  
a. Braid      b. Complex      c. Filament      d. Spun      CO2K2
5. The process of converting fibers directly into fabric is  
a. Felting      b. Weaving      c. Spinning      d. Knitting      CO5K2
6. In a knit, the lengthwise rows of stitches are called  
a. Wales      b. Warps      c. Wefts      d. Course      CO5K2
7. Solution dyeing is mostly used for \_\_\_\_\_ fibers.  
a. Wool      b. Natural      c. Synthetic      d. Cellulose      CO3K1
8. An ironing process that adds sheen to the fabric is  
a. Calendaring      b. Desizing      c. Scouring      d. Embossing      CO3K2
9. Shade nets are examples of  
a. Agro textiles      b. Home textiles      c. Medical textiles      d. Automobile textiles      CO4K1
10. The largest group of geo synthetics is  
a. Geo grids      b. Geonets      c. Geo membranes      d. Geo textiles      CO4K1

##### Part B

5 x 6 = 30

##### Answer ALL questions

Each answer should not exceed 400 words or two pages

- 11.a. List out primary properties of fibers.      CO1K3

(or)

- 11.b. Write the methods of identification of synthetic fiber.      CO1K3

- 12.a. Discuss about yarn count. CO2K2
- (or)
- 12.b. Explain the properties of sewing threads. CO2K3
- 13.a. Discuss about classification of knitting. CO5K2
- (or)
- 13.b. Distinguish between Weaving and knitting in detail. CO3K5
- 14.a. Write a note on Scouring process with schematic diagram. CO3K3
- (or)
- 14.b. Write a note on desizing process. CO3K3
- 15.a. List out the applications of home textiles products and its uses. CO4K3
- (or)
- 15.b. Discuss about functions of geo textiles. CO4K2

**Part C**

**5 x 12 = 60**

**Answer ALL questions**

**Each answer should not exceed 800 words or four pages**

- 16.a. Classify the different types of fibers in detail. CO1K4
- (or)
- 16.b. Illustrate the structure of cotton fiber and write the characteristics of cotton fibre. CO1K4
- 17.a. Summarize in detail about Yarn spinning process with neat diagram. CO2K5
- (or)
- 17.b. Explain in detail about types of yarns. CO2K4
- 18.a. Summarize about fundamental operations of weaving. CO5K2
- (or)
- 18.b. Briefly explain about nonwoven types are characteristics. CO5K4
- 19.a. Write a detailed note on classification of dyes. CO3K3
- (or)
- 19.b. List out in detail about types and methods of printing. CO3K3
- 20.a. Explain in brief about applications of agro textiles. CO4K4
- (or)
- 20.b. Categorize the different type of medical textiles in brief. CO4K4

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