

**Avinashilingam Institute for Home Science and Higher Education for Women,
Coimbatore - 641043
Continuous Internal Assessment Test I – February 2025
II Semester**

Class: I PG

Major: Bio-textiles

SEMESTER II

23MBXC07

FUNCTIONAL TEXTILES

Time: 2 hours

Max. marks: 60

Hrs of

instruction/week:1

No of credits:4

Course Outcome

- Identify the different types of functional textiles and their applications in various fields
- Outline the types of home textiles and agro textiles
- Explain the geo and filtration textiles
- Develop medical textile products and understand the different types of dye textiles
- Identify the role and use of textiles in automobiles

Part – A Choose the correct answer

6 x 1 = 6

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|--|--------|
| 1. Which material is commonly used for manufacturing filtration textiles? | CO1 K1 |
| a. Polyester b. Wool c. Cotton d. Glass fibres | |
| 2. Which of the following is NOT an example of a high-performance textile? | CO1 K2 |
| a. Fire-retardant fabrics b. Water proof fabrics c. Silk fabrics d. Bulletproof vests | |
| 3. What feature is desirable in kitchen linens to handle hot surfaces? | CO2K2 |
| a. Water resistance b. Heat resistance c. High elasticity d. Lightweight material | |
| 4. Why is jute often used in packaging textiles? | CO2 K2 |
| a. It is lightweight and elastic b. It is biodegradable and cost-effective c. It is resistant to chemicals d. It is water-resistant | |
| 5. What type of products is NOT typically packaged in leno bags? | CO3 K2 |
| a. Onions b. Potato c. Cement d. Fruits | |
| 6. Which agro textile product is commonly used to control weed growth in agricultural fields? | CO3 K3 |
| a. Mulch films b. Shade nets c. Netting for crop support d. Brid nets | |

Part-B

Answer All the Question

Answer should not exceed 400 words or two pages

3x6=18

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|---|----|--------|
| 7. a. What are the primary applications of filtration textiles? | Or | CO1 K2 |
| 7. b. Compare the structural differences between woven and non-woven filtration textiles. | | CO1 K1 |
| 8. a. List the types of floor coverings and their ideal properties. | Or | CO1 K1 |
| 8. b. Mention the applications of tarpaulins. | | CO2 K1 |
| 9. a. What is the purpose of using greenhouse covers in agriculture? | Or | CO2 K1 |
| 9. b. State the essential properties of Geotextiles | | CO3 K2 |

Part – C

Answer All the Question

Answer should not exceed 800 words or four pages

3 x 12 = 36

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|---|----|--------|
| 10. a. Explain the significance of tensile strength in high-performance fibers. | Or | CO1 K2 |
| 10. b. Elaborate on the applications of electrospun nano fibers in filtration. | | CO1 K1 |
| 11. a. Describe in detail on the types and properties of bath linens? | Or | CO2 K2 |
| 11. b. Enumerate why leno bags are preferred for agricultural products? | | CO2 K1 |

- 12.a. Explain the role of shade cloth in sun screens for crops?
12.b. Elucidate the difference between woven and non-woven geotextiles?

Or CO3 K2
CO3 K1

ALL THE BEST

Name of the staff: Prof. S.Amsamani