

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

Class: I PG

Major: Bio-textiles

SEMESTER II

23MBXC07

FUNCTIONAL TEXTILES

Time: 2 hours

Max. marks: 60

Hrs. of

instruction/week:4

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

1. Which characteristic is essential for a filtration textile's efficiency? CO1 K1
a. High elasticity b. Pore size c. Colourfastness d. Thickness
distribution
2. Which of the following is a key feature of medical textiles used in wound care? CO1 K2
a. High strength b. Biocompatibility c. Color fastness d. Moisture
absorption
3. What material is commonly used in the production of body armor and bullet proof clothing? CO2K2
a. Kevlar b. Cotton c. Wool d. Polyester
4. Which of the following textile materials is commonly used for automotive seat covers? CO2 K2
a. Wool b. Leather c. Silk d. Linen
5. What is the role of textiles in the construction of automobile interiors? CO3 K2
a. To reduce friction b. To provide c. To improve fuel d. To enhance
aesthetic appeal and efficiency engine performance
comfort
6. What material is commonly used in making sports bras for athletic wear? CO3 K3
a. Cotton b. Lycra / Spandex c. Wool d. Silk

Part-B

Answer All the Question

Answer should not exceed 400 words or two pages

3x6=18

7. a. What are the principal applications of filtration textiles? Or CO1 K2
7. b. Provide an overview of cardiovascular implants. CO1 K1
8. a. Describe the various types of fabrics utilized in Defense textiles. Or CO1 K1
8. b. Discuss on flame and heat protective textiles. CO2 K1
9. a. Brief on the application of textiles used in aircraft. Or CO2 K1
9. b. Identify the essential properties of sports textiles. CO3 K2

Part – C

3 x 12 = 36

Answer All the Question

Answer should not exceed 800 words or four pages

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| 10. a. Explain the means of cleaning filtration textiles. | Or | CO1 K2 |
| 10. b. Discuss in detail the role of textiles in gynecology. | | CO1 K1 |
| 11.a. Describe the importance of survival textiles. | Or | CO2 K2 |
| 11.b Enumerate the applications of textile materials in marine environments. | | CO2 K1 |
| 12.a Explain the role of specialized fibers in sports textiles. | Or | CO3 K2 |
| 12.b Elaborate on textiles used in road ways. | | CO3 K1 |

ALL THE BEST

Name of the staff: Prof. S.Amsamani