

**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: Textiles and Fashion Apparel**

**Time: 2 hours  
Max. marks: 60**

**SEMESTER II  
23MTFC08**

**TECHNICAL TEXTILES**

**Hrs of instruction/  
week :4  
No of credits:4**

**Course Outcome**

- To orient students to the field of technical textiles and enable them to learn the developments in the same
- To gain knowledge about advances in textiles and its applications

**Part – A Choose the correct answer**

**6 x 1 = 6**

1. What is the name of the fabric that has been launched by a company called Singtex that is partially made of coffee grounds? CO1 K1
- a. Cafe out                      b.S.Cafe                      c. Cafe Day                      d. Nescafe
2. Electrospinning is a type of 3D printing that uses an electric charge to create \_\_\_\_\_. CO1 K1
- a. Nano fibres                      b. Strong fibres                      c. Staple fibres                      d. Filament fibres
3. The computer printer tape, silk-screen printing, roller cover, crushing/grinding technology, seal and gasket, conveyor and abrasive belt are the examples of \_\_\_\_\_. CO1 K1
- a. Geo textiles                      b. Packaging textiles                      c. Industrial textiles                      d. Agro textiles
4. Flexible Intermediate Bulk Containers/bags have capacities ranging from \_\_\_\_\_ kgs. CO1 K1
- a. 500- 1000                      b.1000- 2000                      c.500-4000                      d.2000-5000
5. Jute hessian is also termed as \_\_\_\_\_. CO1 K1
- a.Burlap                      b. Leno bag                      c. Sack                      d. Soft luggage
6. What are geotextiles primarily used for in civil engineering? CO1 K1
- a.Enhancing soil fertility                      b.Soil strengthening and erosion control                      c.Aesthetic landscaping                      d.Reducing water evaporation

**Part-B**

**Answer All the Questions**

**3 x 6=18**

**The answer should not exceed 400 words or two pages**

7. a. How has the Indian technical textile market developed over recent years? CO1 K2
- Or
7. b. Write on the environmental benefits of using lotus fibers in comparison to synthetic fibers? CO1 K1
8. a. Describe the different types of industrial textiles. Or      CO1 K1
8. b. What are FIBCs, and how do they differ from other bulk storage CO2 K1

containers?

9. a. Write short note on high-performance synthetic fibers. Or CO2 K1  
9. b. How would you define geotextiles in soil strengthening? CO3 K2

**Part – C**

**Answer All the Questions**

**3 x 12 = 36**

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

10. a. Explain e-thread technology. Or CO1 K2  
10. b. Brief on the unique properties of Nomex and Kevlar? CO1 K1  
11. a. Describe the key factors to consider when choosing industrial textiles for drive belts? Or CO2 K2  
11. b. How are leno bags used in packaging, and which types of products are typically packed in these bags? CO2 K1  
12. a. What is plantable packaging, and how is it created to ensure that it can be planted after use? Or CO3 K2  
12. b. Elaborate on the key guidelines and specifications outlined in IS 16653: 2017. CO3 K1

**ALL THE BEST**

**Name of the staff: Prof. S.Amsamani**