PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2025

(Sixth Semester)

Branch - COSTUME DESIGN & FASHION

CONCEPTS OF TECHNICAL TEXTILE

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Time: Three Hours		Three Hours	Maximum: 50 Marks	
		SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks	$(5 \times 1 = 5)$	
1	tex (i)	te natural polymer fibre which is derived from natural se ktiles is Catgut (ii) Alginate (iv) Chitin	aweed used for medical	
2	(i) (iii	gh performance fibres used for ballistic protection is Polyester (ii) Kevlar (iv) Polyethylene		
3	(i) (iii	packtech, is used for packing the vegeta Woven bag i) Leno bag (ii) Knitted bag (iv) Nonwoven b		
4	i) (ii:	nportant property required for an parachute fabric is Tensile force (ii) Tear strength (iv) Air permeab	ility	
5	Mention the material which can both sense and respond to the external conditor stimuli. (i) Smart (ii) Active (iii) Passive (iv) Very smart		the external conditions	
SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks $(5 \times 3 = 15)$				
6	a.	Describe the role of intelligent garments in medical text		
	b.	Explain the application of nonwoven in healthcare and hygienic sector.		
7	a.	Give an outline of manufacturing process and application of cloth tech. OR		
	b.	Elucidate the types of fibres used in ballistic textiles.		
8	a.	State the importance and application of Packing Textil OR		
	b.	Explain the scope of the following a. Jute Sacks b.	1ea bags	
9	a.	Discuss about the functional sports footwear. OR	les.	
	b.	State the application areas of nonwoven in sports texti	105.	
10	a.	Give an account of shape memory materials. OR	mamory nolumers	
	b.	Mention the challenges of temperature sensitive shape	memory porymers.	

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SECTION -C (30 Marks)

Answer ALL questions ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a. Classify the technical textiles with an example.

OR

- b. Categorize the different types of medical textiles.
- 12 a. Discuss about the bullet proof material and its applications.

OR

- b. Enumerate the feature and functional application of cloth textiles.
- 13 a. Enlist the type of products used in Packtextiles.

OR

- b. What is FIBC? Explain its importance and application.
- 14 a. Discuss about the properties and application of sport textiles.

OR

- b. Give a detailed description about technical sportswear for women.
- 15 a. Classify the different types of smart textiles.

OF

b. Highlight the applications and future prospects of phase change materials in Textiles.

END

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