

**PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)**

**MSc DEGREE EXAMINATION MAY 2025  
(Second Semester)**

**Branch – COSTUME DESIGN & FASHION**

**TECHNICAL TEXTILES**

Time: Three Hours

Maximum: 75 Marks

**SECTION-A (10 Marks)**

Answer ALL questions

ALL questions carry EQUAL marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Polyethylene fibres comes under the category of ____ fibres . a) Natural b) Polyolefin c) Ceramic d) Aramid	K1	CO1
	2	____ fibres transmit light between the two ends of the fibre. a) Optical b) Melamine c) Super absorbent d) Aramid	K2	CO1
2	3	High twisted yarns are used in _____ bandages. a) Compression b) Elasticized c) Light support woven d) Orthopedic cushion	K1	CO2
	4	Sutures are a) Biodegradable b) Non biodegradable c) Both a and b d) None	K2	CO2
3	5	_____ is the largest group of geo synthetics. a) Geonets b) Geogrids c) Geo membranes d) Geo textiles	K1	CO3
	6	The main function of mulch mat is to _____. a) Control water absorption b) Control micro organisms c) Control pesticides d) Control weeds	K2	CO3
4	7	Coatings are _____ than membranes. a) Heavier    b) Thicker    c) Costlier    d) Lighter	K1	CO3
	8	The use of geotextile to prevent intermixing of soil layers is called _____. a) Separation                      b) Reinforcement c) Drainage                        d) Protection	K2	CO3
5	9	These types of materials can revert from the current shape to a previously held shape, usually due to the action of heat. a) Shape memory polymers b) Phase change materials c) Chromic materials d) Conductive materials	K1	CO4
	10	Quick absorption and fast drying is the most important feature of _____ textiles. a) Mobile                      b) Medical                      c) Sports                      d) Industrial	K2	CO4

Cont...

**SECTION - B (35 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks

(5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	List out the various applications of technical textiles in detail.	K3	CO1
	(OR)			
	11.b.	Discuss the role of aramid fibres in technical textiles, types and its properties.		
2	12.a.	Explain the role of bio materials used in medical textiles.	K3	CO3
	(OR)			
	12.b.	Explain the role of bandages used in non implantable materials in medical textiles.		
3	13.a.	Categorise the various fibres and fabrics used for protective textiles.	K4	CO4
	(OR)			
	13.b.	Analyse the fibre requirements for transportation textiles.		
4	14.a.	Infer membranes and its method of incorporation in textiles.	K4	CO4
	(OR)			
	14.b.	Examine the fibres and fabrics used in flame resistant protective clothing.		
5	15.a.	Explain the chromic materials and its various types in detail.	K5	CO5
	(OR)			
	15.b.	Elaborate the latest fibres and fabrics used in sports textiles.		

**SECTION - C (30 Marks)**

Answer ANY THREE questions

ALL questions carry EQUAL Marks

(3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Elaborate the role of aromatic polyester fibres and carbon fibres and their properties in detail.	K4	CO1
2	17	Classify the role of extra corporeal devices and the fibres used in medical textiles.	K4	CO2
3	18	Enumerate the various functions of geotextiles in detail.	K4	CO3
4	19	Explain electrical protective clothing in detail.	K5	CO4
5	20	Discuss the applications of smart textiles in textiles and clothing in detail.	K5	CO5

Z-Z-Z

END