PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2023

(Second Semester)

Branch - COSTUME DESIGN AND FASHION

TECHNICAL TEXTILES

Tin	ne: Three Hour	3			Maximum: 50 Marks
		<u>S</u> E	CTION-A (5 M	<u> [arks)</u>	
		\mathbf{A}_{1}	nswer ALL ques	stions	
		ALL quest	ions carry EQU	AL marks	$(5 \times 1 = 5)$
1	Meta-Aram (i) Natura (iii) Compo	l fibre		performance fi- synthetic fibre	
2	Chitin is a _ (i) Polysa (iii) Protein	ccharide	medical textiles (ii) Mone (iv) Carbo	osaccharide	
3	Indicate the (i) Mecha (iii) Filtrati	essential proper nical resistances on		ical resistances	
4	From the fol (i) Draper (iii) Filtration	ies	on-woven fabric (ii) Lugg (iv) Banda	aage	xtiles is mostly used?
5	(i) Medica	re coming under l textiles ive textiles		gent textiles	
		Àn	TION - B (15 N swer ALL Ques ions Carry EQU	tions	$(5 \times 3 = 15)$
6	a Explain th	e manufacturing	of Carbon fibre		(5.15 15)
	b Discuss th	e application of	OR optical fibres.		
7 .	a State the a	pplication of sur	gical textiles. OR		
. 1	b Recomme	nd the hygiene p		cal textiles.	
3 :	a Discuss th	e concept of a te	nsegrity structur OR	e.	
1	b List out th	e applications of			
•	a Compare	waterproof and b	reathable fabrics OR	3.	
1	b Write abou	at filtration textil			
10 a	a State the b	enefits of smart	textiles. OR		
1	Explain th	e properties of sp			

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Classify the technical textiles in detail.

OR

- b Determine the characteristics and applications of High-performance polyethylene fibres.
- 12 a Give an account on Dialysis textiles.

OR

- b Elucidate the applications of non-implantable textiles.
- 13 a Explain how soil resistance and filtration are carried out using geotextiles?
 - b Analyze the applications of agricultural textiles.
- 14 a Compare chemical protective and electrical protective clothing.

OR

- b Evaluate the applications of protective clothing in defense.
- 15 a Determine the applications of textiles for camping & Hiking.

OR

b Recommend any two important smart textile products based on their performance enhancement.

Z-Z-Z

END