

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

BSc DEGREE EXAMINATION DECEMBER 2025
(First Semester)

Branch – COSTUME DESIGN AND FASHION

TEXTILE SCIENCE

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer **ALL** questions

ANSWER ALL questions
ALL questions carry EQUAL marks

$$(10 \times 1 = 10)$$

Cont.

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 7 = 35)$

Module No.	Question No.	Question	K Level	CO
1	11.a.	List and explain the steps in fibre extraction process of jute. (OR)	K1	CO1
	11.b.	State the physical and chemical properties of silk fibre.		
2	12.a.	Explain why nylon is used for ropes and fishing nets. (OR)	K2	CO2
	12.b.	Compare the properties of acrylic fibre with natural fibres.		
3	13.a.	Demonstrate how the objectives of ginning and carding are interconnected in producing spinnable fibre. Give suitable examples. (OR)	K3	CO3
	13.b.	Apply the concept of fibre alignment to explain how drawing enhances strength and uniformity of yarn.		
4	14.a.	Apply the principles of drafting and twisting and explain how sliver lap forming is carried out. (OR)	K3	CO4
	14.b.	Illustrate with the examples, the consequences of improper winding on downstream weaving or knitting process		
5	15.a.	Illustrate how the method of fancy yarn formation affects its strength, appearance and suitability for different types of textiles. (OR)	K3	CO5
	15.b.	Demonstrate the effect of plying direction on yarn balance and fabric behaviour.		

SECTION - C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks

 $(3 \times 10 = 30)$

Module No.	Question No.	Question	K Level	CO
1	16	Define textile fibres and state the classification of textile fibres.	K1	CO1
2	17	Discuss the quality standards and uses of polyester and acrylic fibres.	K2	CO2
3	18	Construct the process sequence of spinning preparatory and explain each stage briefly.	K3	CO3
4	19	Examine the ring spinning process and analyze the functions of its main parts.	K4	CO4
5	20	Assess how yarn twist level influences fabric properties such as strength, elasticity, and handle.	K5	CO5