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22CDU101N

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2026
(First Semester)

Branch- COSTUME DESIGN & FASHION

TEXTILE SCIENCE

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	What is the main component of vegetable fibre? (a) Protein (b) Regenerate c) cellulose (d) Modified cellulose	K1	CO1
	2	Which fibers are extracted from the stem part of plant? a) Silk (b) Casein (c) Cotton (d) Hemp	K2	CO1
2	3	Find out the classification for Rayon, Nylon and polyesters. (a) Fibres (b) Animal Fibres (c) Natural Fibres (d) Synthetic Fibres	K1	CO1
	4	Which of the following fibres is used for making parachutes, ropes and sleeping bags? Relate the correct answer. (a) Rayon (b) Nylon (c) Polyesters (d) All of the above	K2	CO2
3	5	Which process in spinning does parallelizing the fibres happen and clearing of foreign particles? a) Combing (b) Roving (c) Drawing (d) Carding	K1	CO3
	6	Relate the optional process carried out in spinning to reduce noil fibres. (a)Combing (b) Carding (c) Drawing (d) Blow room	K2	CO3
4	7	Name the process in spinning in which twist is Introduced first. a) Blowroom (b) Carding (c) Simplex (d) Ringframe	K1	CO3
	8	Identify the spinning type in which sliver is converted To yarn directly without simplex process. a) OE spinning b) Ring spinning c) Doubling d) Combing	K2	CO3
5	9	What is the direction of the twist 'Z'? (a) left (b) right (c) downward (d) upward	K1	CO5
	10	What are the short length man-made yarns known as? (a) Complex (b) Filament (c) Spun	K2	CO5

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.	Explain the retting process and its types.	K2	CO3 CO2
		(OR)		
	11.b.	Summarize physical and chemical properties of cotton fiber.		
2	12.a.	Identify the uses of polyester and acrylic fiber.	K3	CO1 CO3
		(OR)		
	12.b.	Model on the polymerization process and its types.		
3	13.a.	Construct about the blow room and its process.	K3	CO3 CO4
		(OR)		
	13.b.	Develop and characterize combing and its working principle.		
4	14.a.	Infer about simplex roving machines with neat illustration.	K4	CO4
		(OR)		
	14.b.	Analyze and explain about assembly winder doubling.		
5	15.a.	Describe about any four different types of fancy yarns.	K5	CO5
		(OR)		
	15.b.	Explain about faults occurring in yarns.		

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	Categorize the manufacturing process and properties of jute fiber.	K4	CO2
2	17	Distinguish between natural and manmade fibres in detail with reference to source, properties and applications.	K4	CO1
3	18	Evaluate the need for a blow room and its process in detail.	K5	CO3
4	19	Explain in detail on drafting in simplex and ring frame and its working principles.	K5	CO4
5	20	Determine in detail about the texturizing process and its application.	K5	CO5

Z-Z-Z END