

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2024
(First Semester)

Branch - COSTUME DESIGN AND FASHION

ADVANCED 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	Name the component of jute fibre. a) Cellulose b) Keratin c) Fibroin d) Sericin	K1	CO1
	2	Which of the following process is related to wool fibre? a) Ginning b) Degumming c) Retting d) Felting	K2	CO1
2	3	Which fibre is represented by the trade mark TENCEL? a) Viscose b) Lyocell c) Di Acetate d) Acetate	K1	CO2
	4	Which among the following is an example for regenerated protein fibre? a) Viscose b) Lyocell c) Modal d) Casein	K2	CO2
3	5	What is percentage of acrylonitrile monomer content in Modacrylic fibre? a) 10 to 35% b) 35 to 85% c) 85 to 95% d) more than 95%	K1	CO3
	6	Select the type of preferred spinning method for polyester fibre production. a) Melt b) Dry c) Wet d) All of these	K2	CO3
4	7	Name the spinning type which belongs to open end spinning. a) Rotor b) Air jet c) Ring d) Compact	K1	CO4
	8	What is / are the cotton fibre quality requirements to spun a finer yarn? a) Long length b) More fineness c) More Uniformity d) All of these	K2	CO4
5	9	DREF is known as a) Bobtex b) Friction c) Compact d) Twist less	K1	CO5
	10	Adhesives are used in _____ spinning method. a) Air Jet b) Friction c) Compact d) Twist less	K2	CO5

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.	Identify the Characteristics required for a fibre forming polymer.	K3	CO1
	(OR)			
	11.b.	Organize the parameters for Grading of wool.		
2	12.a.	Identify the Sustainable practices in production of Tencel fibre.	K3	CO2
	(OR)			
	12.b.	Construct details on properties of Cuprammonium rayon.		

Cont...

3	13.a.	Classify Nylon 6 and nylon 6,6.	K4	CO3
	(OR)			
	13.b.	Analyze the properties and applications of polyester.		
4	14.a.	Examine the production and quality requirements of Industrial yarn.	K4	CO4
	(OR)			
	14.b.	List out the steps in production of Sewing yarn.		
5	15.a.	Explain about Self twist spinning process.	K5	CO5
	(OR)			
	15.b.	Assess the Friction spinning process in detail.		

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	Analyze the types of silk and its production process.	K4	CO1
2	17	Compare and contrast Diacetate and triacetate fibres.	K4	CO2
3	18	List out sequence of process for Polyacrylonitrile fibre production.	K4	CO3
4	19	Explain about Airjet spinning.	K5	CO4
5	20	Explain the Spinning techniques using adhesive process.	K5	CO5

Z-Z-Z

END