PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2023
(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 wool fibre. a) Cellulose b) Keratin c) Fibroin d) Sericin	K1	CO1
	2	Which of the following process is related to Jute fibre? a) Ginning b) Degumming c) Retting d) Felting	K2	CO1
2	3	Which of the following spinning technique used to manufacture Viscose rayon? a) Wet b) Melt c) Dry d) All of these	K1	CO2
	4	Show the fibre having comparatively low moisture regain value. a) Viscose b) Tencel c) Acetate d) Cuprammonium rayon	K2	CO2
3	5	Name the fibre produced by using Caprolactam as monomer. a) Polyester b) Nylon 6 c) Polyacrylonitrile d) Polyurethane	K1	CO3
	6	Among the following, which fibre possess more stretchability? a) Polyester b) Nylon 6,6 c) Polyacrylonitrile d) Polyurethane	K2	CO3
4	7	Name the spinning method which achieves highest productivity. a) Rotor b) Air jet c) Ring d) Compact	K1	CO4
	8	A yarn produced with filament at the core covered by staple fibres is known as a) Core Spun b) Cover c) Air jet d) Compact	K2	CO4
5	9	Name the spinning system which produces multi component yarn. a) Bobtex b) Friction c) Compact d) Twist less	K1	CO5
	10	Edge crimping produces _____ yarn. a) Stretch b) Modified stretch c) Bulk d) All of these	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.	Choose the method for extraction of bast fibres.	K3	CO1
		(OR)		
	11.b.	Construct the applications of cotton and Jute fibre.		
2	12.a.	Construct and compare the types of fibre spinning systems.	K3	CO2
		(OR)		
	12.b.	Build the differences between viscose and Tencel fibre.		
3	13.a.	Examine the properties and applications of polyamide fibre.	K4	CO3
		(OR)		
	13.b.	Analyze about various Polyolefin fibres.		
4	14.a.	Discover the essential and desirable properties of fibres required for yarn production.	K4	CO4
		(OR)		
	14.b.	Distinguish the principles of core and cover yarn formation.		
5	15.a.	Assess the various texturing methods to produce bulk yarns.	K5	CO5
		(OR)		
	15.b.	Explain the methodology and concepts of Bobtex spinning.		

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	Appraise the influence of Degree of polymerization and crystallinity on the fibre property.	K5	CO1
2	17	Discover the steps in the Manufacturing of viscose.	K4	CO2
3	18	Explain about the production of Elastomeric fibres and its application.	K5	CO3
4	19	Compare the production process and yarn properties of Ring spun and OE spun yarns.	K4	CO4
5	20	Analyze the spinning process and yarn quality of compact and ring spinning.	K4	CO5

Z-Z-Z   END