

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
MSc DEGREE EXAMINATION DECEMBER 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)

Question No.	Question	K Level	CO
1	_____ is a polymer. a) Nylon b) Jute c) Cotton d) Wool	K1	CO1
2	_____ refers to the silk protein. a) Keratin b) Fibroin c) Sericin d) Lignin	K2	CO1
3	Polyester is produced by _____ spinning. a) Dry b) Melt c) Wet d) Jet	K1	CO2
4	Cellulose Xanthate is formed during the manufacture of _____. a) Tencel b) Viscose rayon c) Polyester d) Nylon	K2	CO2
5	_____ fibre utilizes beech tree wood as raw material. a) Tencel b) Viscose rayon c) Nylon d) Acetate rayon	K1	CO3
6	Caprolactum is used as raw material in _____. a) Polyester b) Nylon c) Acrylic d) Spandex	K2	CO3
7	Vortex spinning is the other name for _____. a) Melt spinning b) Dry spinning c) Rotor spinning d) Air jet spinning	K1	CO4
8	Noils are removed in _____. a) Blowroom b) Carding c) Drawframe d) Comber	K2	CO4
9	_____ is done to add crimp to the filaments. a) Texturising b) Carding c) Air jet spinning d) Compact spinning	K1	CO5
10	_____ technique is characterized by twisting the yarn and then untwisting it. Compact spinning b) Open end spinning c) False twist spinning d) Combing	K2	CO5

Cont...

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 × 7 = 35)

Question No.	Question	K Level	CO
11.a.	Identify the characteristics of fibre forming polymer.	K3	CO1
	(OR)		
11.b.	Describe the retting and extraction process of bast fibres.		
12.a.	Develop a note on melt spinning process.	K3	CO2
	(OR)		
12.b.	Write the manufacturing process of acetate fibre.		
13.a.	Analyze the properties of polyamide fibres.	K4	CO3
	(OR)		
13.b.	Discuss the manufacturing process of polypropylene.		
14.a.	Compare ring spun and open end spun yarns.	K5	CO4
	(OR)		
14.b.	Explain the principles and formation of specialty yarns.		
15.a.	Analyze the spinning technique for high bulk yarns.	K4	CO5
	(OR)		
15.b.	Examine the friction spinning.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks

(3 × 10 = 30)

Question No.	Question	K Level	CO
16	Explain the types of wool, properties and uses.	K4	CO1
17	Construct a note on manufacturing process and properties of viscose rayon.	K5	CO2
18	Examine the manufacturing process and properties of Polyester.	K4	CO3
19	Evaluate the process flow chart for Rotor spinning.	K4	CO4
20	Criticize the Compact spinning technique in details.	K5	CO5

Z-Z-Z END