

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

**MSc DEGREE EXAMINATION MAY 2025
(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	Retting is done for _____. a) Viscose b) Flax c) Cotton d) Wool	K1	CO1
2	_____ refers to the wool 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	Carbon-d--sulphide is used in 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	_____ is an elastomeric fibre. a) Polyester b) Nylon c) Acrylic d) Spandex	K2	CO3
7	Open-end spinning is the other name for _____. a) Melt spinning b) Dry spinning c) Rotor spinning d) Air jet spinning	K1	CO4
8	Opening and cleaning of fibres takes place in _____. a) Blowroom b) Carding c) Drawframe d) Comber	K2	CO4
9	Stuffer box is used in _____. 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. a) 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.	Build a note on crystallinity.	K3	CO1
	(OR)		
11.b.	Describe the production process of silk.		
12.a.	Build a note on dry spinning.	K4	CO2
	(OR)		
12.b.	Extend a note on sustainability of Tencel fibre.		
13.a.	Summarize the properties of polyester.	K4	CO3
	(OR)		
13.b.	Discuss the manufacturing process of polyacrylonitrile.		
14.a.	Discuss about core and cover yarns.	K4	CO4
	(OR)		
14.b.	Compare ring spun and open-end spun yarns.		
15.a.	Dissect on twistless spinning.	K4	CO5
	(OR)		
15.b.	Examine airjet 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 manufacturing process, properties and uses of cotton.	K4	CO1
17	Construct a note on manufacturing process and properties of viscose rayon.	K5	CO2
18	Organize a note on manufacturing process and properties of Nylon 66.	K3	CO3
19	Outline the ring spinning process.	K4	CO4
20	Explain Texturising process.	K5	CO5