

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2024
(Third Semester)

Branch - COSTUME DESIGN & FASHION

TEXTILE WET PROCESSING

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	What is the primary purpose of singeing in textile processing? a) To dry the fabric b) To remove protruding fibers c) To bleach the fabric d) To add color to the fabric	K1	CO1
2	Which chemical process increases the luster and strength of cotton fabric? a) Bleaching b) Scouring c) Mercerization d) Desizing	K2	CO1
3	What type of dye is most suitable for cotton fabric? a) Acid dye b) Reactive dye c) Basic dye d) Disperse dye	K1	CO2
4	Which dyeing technique involves tying the fabric before applying dye? a) Batik b) Rotary printing c) Tie and Dye d) Discharge printing	K2	CO2
5	What type of dyeing machine is used for yarn dyeing? a) Winch dyeing machine b) Jigger machine c) Hank dyeing machine d) Jet dyeing machine	K1	CO3
6	Which dyeing machine is most suitable for delicate fabrics like silk? a) Soft flow dyeing machine b) Beam dyeing machine c) Jigger dyeing machine d) Winch dyeing machine	K2	CO3
7	What is screen printing used for in textile processing? a) Dyeing fibers b) Applying designs on fabric c) Bleaching fabrics d) Scouring fabrics	K1	CO4
8	What is a common defect in textile printing? a) Mercerization b) Dye transfer c) Screen tearing d) Patchy dyeing	K2	CO4
9	Which of the following is a mechanical finishing process? a) Bio-polishing b) Calendaring c) Flame retardant finishing d) Stain-resistant finishing	K1	CO5
10	Which finishing process improves the wrinkle resistance of fabric? a) Acid wash b) Durable press finish c) Mercerizing d) Scouring	K2	CO5

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SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 × 7 = 35)

Question No.	Question	K Level	CO
11.a.	Demonstrate the singeing process in textile wet processing and its importance.	K2	CO1
	(OR)		
11.b.	Classify the bleaching methods used in the textile industry.		
12.a.	Identify common dyeing defects and suggest remedies.	K3	CO2
	(OR)		
12.b.	Explain the tie and dye technique and its application in fashion textiles.		
13.a.	Discuss the role of lab dips in ensuring color consistency in dyeing.	K3	CO3
	(OR)		
13.b.	Summarize the working principle of padding mangles		
14.a.	Describe the screen printing process and its applications.	K4	CO4
	(OR)		
14.b.	Examine the defects encountered in textile printing.		
15.a.	Describe the process of stone washing and its effects on fabric.	K4	CO5
	(OR)		
15.b.	Explain the significance of durable press finishing in the textile industry.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks

(3 × 10 = 30)

Question No.	Question	K Level	CO
16	Discuss about mercerization and its methods	K4	CO1
17	Compare and contrast the properties and applications of acid, reactive, vat, and eco-friendly dyes.	K4	CO2
18	Compare the advantages and limitations of soft flow dyeing machines and HT beam jet dyeing machines.	K4	CO3
19	Analyze the advancements in digital printing and its impact on the textile industry.	K4	CO4
20	Categorize the role of bio-polishing and stain-resistant finishing in enhancing fabric properties.	K4	CO5