

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2022  
(Second Semester)

Branch – COSTUME DESIGN AND FASHION

ADVANCED PROCESSING AND FINISHING

Time: Three Hours

Maximum: 50 Marks

**SECTION-A (5 Marks)**

Answer ALL questions  
ALL questions carry EQUAL marks (5 x 1 = 5)

1. Identify the enzyme used in enzymatic desizing.  
(i) Pectinase (ii) Lipase  
(iii) Amylase (iv) Cellulase
2. Which of the following printing uses sublimable dyes?  
(i) Screen (ii) Transfer printing  
(iii) Digital printing (iv) 3 D digital printing
3. Which of the following is a method of extracting natural dyes?  
(i) Solvent extraction (ii) Aqueous extraction  
(iii) Enzymatic extraction (iv) All of the above
4. Identify a specialty finish.  
(i) Water repellent (ii) Calendaring  
(iii) Antimicrobial (iv) Mildew proofing
5. Indicate the parameter that is an estimate of oxygen required for portion of organic matter in waste water that is subjected to oxidation.  
(i) BOD (ii) TOD  
(iii) COD (iv) TDS

**SECTION - B (15 Marks)**

Answer ALL Questions  
ALL Questions Carry EQUAL Marks (5 x 3 = 15)

- 6 a Explain about the types of water.  
OR  
b State the sequence of preparatory process adopted for Silk.
- 7 a Discuss the new techniques in Batik printing.  
OR  
b Explain the styles of Printing.
- 8 a Natural dyes have a lot of advantages-Justify.  
OR  
b Explain about fixation and after treatment for dyeing.
- 9 a Discuss the objectives of Finishing.  
OR  
b Classify finishes.
- 10 a Assume the causes of pollution in textile industry.  
OR  
b State the rules and regulations regarding discharge of effluents.

Cont...

**SECTION -C (30 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 6 = 30)

- 11 a Enumerate about the application of enzymes in various preparatory process.  
OR  
b Assume you are given a fabric with protruding fibers recommend the pre treatment to be given? Explain the same.
- 12 a Elucidate the different stages of Dyeing.  
OR  
b Recommend machines for dyeing yarns and describe the process involved in dyeing using those machines.
- 13 a Enumerate the different methods of extracting natural dyes.  
OR  
b Assess the process of dyeing cotton using natural dyes.
- 14 a Enumerate on the recent developments in finishing.  
OR  
b Compare water repellent and waterproof finishing.
- 15 a Appraise the methods used in ETP to control pollution.  
OR  
b Enumerate on RO process of effluent treatment.

Z-Z-Z END