

**Continuous Internal Assessment Test I – February 2025  
Semester II**

**Class : I PG  
Major: Bio- Textiles**

**Time: 2 hours  
Max. Marks: 80**

**23MBXC08 Textile Processing and Effluent Treatment**

**Course Outcomes:**

- Understand the need for fabric preparatory processing and Explain various dyeing and printing techniques.
- Demonstrate the characteristics and treatment methods of textile effluent.
- Identify appropriate textile finishing techniques for various product developments.
- Categorize the different textile effluent treatment methods.
- Analyze the advanced waste water treatment methods.

**Part – A**

**6 x 1 = 6**

**Choose the correct answer**

1. The following pretreatment method is done to remove starch from cotton fabric (CO1 K2)  
a. Desizing                      b. Scouring                      c. Degumming                      d. Bleaching
2. An example of fibre dyeing method (CO1 K2)  
a. Dope dyeing                      b. Winch dyeing                      c. Beam dyeing                      d. Jig dyeing
3. A printing method that simulates a woven pattern by printing the fabric on both sides (CO1 K2)  
a. Duplex printing                      b. Rotary printing                      c. Block printing                      d. Batik printing
4. Choose the printing method, where doctor blades are used (CO1 K2)  
a. Block                      b. Flock                      c. Roller                      d. Batik
5. Identify a mechanical finish that is used to smoothen the fabric (CO3 K2)  
a. Carbonising                      b. Battening                      c. Embossing                      d. Calendaring
6. The process which restores the weight loss during the process of silk degumming is (CO3 K2)  
a. Weighting                      b. Battening                      c. Embossing                      d. Calendaring

**Part-B**

**3 X 6 = 18**

**Answer ALL the following questions.**

**Answer should not exceed 400 words or two pages**

7. a. Explain briefly about the stages of dyeing.                      OR                      (CO1 K2)  
b. Give an account on Mercerization.                      (CO1 K2)
8. a. Discuss the different styles of printing with examples.                      OR                      (CO1 K2)  
b. Describe block printing method.                      (CO1 K2)
9. a. Give a brief account on carbonizing and embossing.                      OR                      (CO3 K2)  
b. Write short notes on calendaring.                      (CO3 K2)

**Part – C**

**3x 12 = 36**

**Answer ALL the following questions.**

**Answer should not exceed 800 words or four pages**

10. a. Elaborate on the classification of dyes.                      OR                      (CO1 K2)  
b. Give a detailed account on the types of dyeing machines.                      (CO1 K2)
11. a. Discuss in detail on stencil and screen printing methods.                      OR                      (CO1 K2)  
b. Describe in detail about any three minor printing methods.                      (CO1 K2)
12. a. Give a detailed account on classification of textile finishes.                      OR                      (CO3 K2)  
b. Explain in detail on tentering , stiffening and silk weighting.                      (CO3 K2)

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