



**B.TECH DEGREE EXAMINATIONS: APRIL / MAY 2023**

(Regulation 2018)

Sixth Semester

**TEXTILE TECHNOLOGY**

U18TXI6202:Textile Chemical Processing-II

**COURSE OUTCOMES**

- CO1:** Discuss the style and methods of printing
- CO2:** Explain the working principle of various printing machines
- CO3:** Contrast the mechanism of various finishes
- CO4:** Explain the mechanism of functional finishes
- CO5:** Summarize the pollution control measures in textile processing industry

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-  
PART A (10 x 2 = 20 Marks)  
(Answer not more than 40 words)**

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|--|-----------------------|
| 1. Define block printing.  | CO1 [K <sub>1</sub> ] |
| 2. Summarize the pigment printing process.                                     | CO1 [K <sub>2</sub> ] |
| 3. List out the advantages and disadvantages of screen printing.               | CO2 [K <sub>1</sub> ] |
| 4. Define flock printing and its types.  | CO2 [K <sub>1</sub> ] |
| 5. List out the objectives of compacting process.                              | CO3 [K <sub>2</sub> ] |
| 6. Outline the durable press finish.   | CO3 [K <sub>2</sub> ] |
| 7. Organize the different types of functional finishes.                        | CO4 [K <sub>3</sub> ] |
| 8. Infer biopolishing process with suitable recipe and parameters.             | CO4 [K <sub>2</sub> ] |
| 9. Summarize the need for waste minimization.                                  | CO5 [K <sub>2</sub> ] |
| 10. List out the any four water conservation methods used in textile industry. | CO5 [K <sub>1</sub> ] |

**Answer any FIVE Questions:-**  
**PART B (5 x 16 = 80 Marks)**  
**(Answer not more than 400 words)**

11. Explain in detail about various print paste ingredients and their functions. CO1 [K<sub>5</sub>]
12. Outline the printing mechanism of colour transfer in cotton material using reactive dye with different styles. CO1 [K<sub>2</sub>]
13. Elaborate on working principle of continuous transfer printing machine and its advantages and disadvantages. CO2 [K<sub>3</sub>]
14. Compare the swizzing, friction and chasing calendaring process with neat sketch. CO3 [K<sub>4</sub>]
15. Examine mechanism and different theory of flame retardant finishes. CO4 [K<sub>4</sub>]
16. Organize the reason for pollution problems in textile industry and techniques used for effluent treatment process with neat sketch. CO5 [K<sub>3</sub>]

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