



C20-TT-304

7295

**BOARD DIPLOMA EXAMINATION, (C-20)**  
**OCTOBER/NOVEMBER—2023**  
**DTT - THIRD SEMESTER EXAMINATION**  
**TEXTILE CHEMICAL PROCESSING—I**

Time : 3 Hours ]

[ Total Marks : 80

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**PART—A**

3×10=30

- Instructions :** (1) Answer **all** questions.  
(2) Each question carries **three** marks.  
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Define the term “Contact Angle”.
2. List three uses of singeing.
3. Write any three advantages of rot steeping.
4. State the objectives of scouring.
5. List different bleaching agents used in bleaching.
6. State the effects of restricted shrinkage in mercerizing.
7. Write any three advantages of milling.
8. State three objectives of degumming of silk.
9. List the precautions to be taken during bleaching of synthetic fibers.
10. List any three defects and remedies for wet processing preparatory.

**PART—B**

8×5=40

- Instructions :** (1) Answer **all** questions.  
(2) Each question carries **eight** marks.  
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

**11.** (a) Explain the continuous method of bleaching with hydrogen peroxide.

**(OR)**

(b) Explain the precautions to be taken during hypochlorite bleaching.

**12.** (a) Explain the process of hank mercerizing.

**(OR)**

(b) Explain the process of fabric mercerizing.

**13.** (a) Explain the method of emulsion scouring method for wool.

**(OR)**

(b) Explain the process of scouring of woolen and worsted yarns.

**14.** (a) Explain the process of weighting of silk.

**(OR)**

(b) List the advantages and disadvantages for weighting of silk.

**15.** (a) Explain the preparation process of viscose.

**(OR)**

(b) Explain the preparation process of Acetate.

**PART—C**

10×1=10

- Instructions :** (1) Answer the following question.  
(2) The question carries **ten** marks.  
(3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

**16.** What are the effects on fabric if the scouring process is not done for cotton?

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