



**C20-TT-303**

**7294**

**BOARD DIPLOMA EXAMINATION, (C-20)  
OCTOBER/NOVEMBER—2023  
DTT - THIRD SEMESTER EXAMINATION  
FABRIC MANUFACTURE—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. Mention the objectives of warping.
2. Define looming and list various operations involved in looming.
3. Define the terms weaving and loom.
4. List the types of motions in a loom.
5. Mention the advantages of tappet shedding.
6. State the functions of reed in a loom.
7. List three objectives of take-up motion.
8. List the auxiliary motions of a loom.
9. Mention any three causes and remedies of shuttle trap.
10. List any six warp defects.

**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 passage of material through slasher sizing machine.

**(OR)**

(b) Explain the Shirley automatic size box with legible diagram.

**12.** (a) List different types of shed formation and state important features for any two sheds.

**(OR)**

(b) Explain the cone under pick mechanisms with a diagram.

**13.** (a) Explain the working of Bartlett positive let off motion with the diagram.

**(OR)**

(b) Explain the working of anti-crack motion with the diagram.

**14.** (a) Explain the working of loose reed motion.

**(OR)**

(b) Compare side weft fork motion with centre weft fork.

**15.** (a) Write the causes and remedies of shuttle fly out.

**(OR)**

(b) A cloth was woven with warp yarn of 36's and weft yarn of 48's. The no. of ends and picks/inch are 76 and 58 respected. Find out the warp cover factor, weft cover factor and cloth cover factor.

**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.** Explain the role of sizing ingredients for successful sizing of warp.

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