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222552

**5th Sem. / Textile Design  
Subject : Fabric Manufacture - III**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

**Note: Multiple Choice Questions. All Questions are compulsory. (6x1=6)**

- Q.1 Length of fabric present in the cloth beam is known as  
a) Tape Length      b) Yarn length  
c) Cloth length      d) None of these
- Q.2 Which of following is not a type of loom  
a) Dobby loom      b) Jacquard loom  
c) Projectile loom      d) Braiding loom
- Q.3 Fused selvedges are produced on  
a) Rapier looms      b) Air jet looms  
c) Water jet looms      d) All of these
- Q.4 Which is not a part of water jet weaving machine  
a) Transducer      b) Accumulator  
c) Jet cutting nozzle      d) Hydraulic pump
- Q.5 Which of the following is not a type of shuttle.  
a) Rapier shuttle      b) Air jet shuttle  
c) Water jet shuttle      d) Projectile shuttle

- Q.6 What is the primary purpose of shuttle in weaving
- a) To hold the weft yarn
  - b) To control the tension of warp yarn
  - c) To create a shed
  - d) To beat the weft yarn into place

### Section-B

**Note:** Objective/Completion type questions. All questions are compulsory.  $(6 \times 1 = 6)$

- Q.7 What is Count of reed?
- Q.8 What is estimated operating speed of rapier looms?
- Q.9 Two rapier enters the shed at \_\_\_\_\_ time.
- Q.10 Which motion of Loom make it an automatic Loom?
- Q.11 The function of projectile is to insert \_\_\_\_\_.
- Q.12 Back beam is also known as \_\_\_\_\_.

### Section-C

**Note:** Short answer type Question. Attempt any eight questions out of Ten Questions.  $(8 \times 4 = 32)$

- Q.13 How does the Principle of Projectile weaving differ from conventional weaving.
- Q.14 What type of selvedges are formed in a Rapier Loom?
- Q.15 What are the functions of accumulator in an Air-Jet Loom?

- Q.16 Explain how the rigid rapier and flexible rapier system differ in shuttle-less looms.
- Q.17 Discuss the various type of weft insertion systems used in shuttle-less looms.
- Q.18 Why is cheese not suitable as a supply package in Air-Jet looms?
- Q.19 Discuss the role of warp tension in ensuring fabric quality in rapier looms.
- Q.20 How does the beat-up mechanism work in Water-jet looms?
- Q.21 Describe the advantages of modern picking system.
- Q.22 Write about profile reed and its functions.

### Section-D

**Note:** Long answer questions. Attempt any two question out of three Questions.  $(2 \times 8 = 16)$

- Q.23 Write briefly about:
- a) Truck Selvedge
  - b) Leno Selvedge
- Q.24 Explain the Dewas and Gabler system of weft insertion by Rapier Looms.
- Q.25 Discuss the principle of weft insertion and picking mechanism in Water jet weaving machine.