

- Q.26 Discuss the features of projectile weaving.
  - Q.27 What are the advantages of airjet loom water jet loom?
  - Q.28 Explain disadvantages of shuttle looms
  - Q.29 What is the importance of weft accumulator?
  - Q.30 Give the classification of weaving machines.
  - Q.31 What are the problems faced during weft insertion in airjet?
  - Q.32 Write a note on hydraulic looms.
  - Q.33 Mention the salient features of power looms
  - Q.34 What are the drawbacks of conventional shuttle loom?
  - Q.35 What are the advantages of Rapier loom.

## **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Define Selvedge ? Explain the types of selvedges used in modern weaving machines in detail.

Q.37 Discuss in detail weft insertion sequence of hydraulic/water jet weaving machine with well-illustrated diagram.

Q.38 Discuss the advantages and disadvantages of rapier shuttle less loom?

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**5th Sem / Text. Design  
Subject:- Fabric Manufacturing - III**

Time : 3Hrs. M.M. : 100

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## **SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Balloon breaker is used in which of the following loom  
a) Air jet loom      b) Water jet loom  
c) Projectile Loom    d) All of the above

Q.2 Projectile loom is a type of  
a) Shuttle loom      b) Handloom  
c) Shuttles less loom d) None

Q.3 Function of weft detector in a water jet loom is  
a) To stop the weft yarn  
b) To cut the weft yarn  
c) To sense the presence of weft yarn  
d) None of the above

Q.4 The function of selvedge in a fabric is  
a) To add decorative elements  
b) To provide stability at the edges  
c) To create patterns  
d) To make the fabric soft

- Q.5 What is the main purpose of yarn tensioner in air jet loom?
- To add color to the fabric edges
  - To provide uniform tension
  - To prevent the fabric edges from fraying
  - To make the fabric thicker
- Q.6 High pressure jet of air is used to insert the weft yarn in
- Water jet loom
  - Rapier loom
  - Air jet loom
  - None
- Q.7 Dewas and gabler are the system of weft insertion used in
- Rapier looms
  - Water jet looms
  - Air jet looms
  - None
- Q.8 Shuttle is device used for inserting the \_\_\_\_\_ yarn during picking.
- Warp yarn
  - Weft yarn
  - Shuttle
  - None
- Q.9 The rapier which do not bents during the weft insertion cycle is known as
- Flexible rapier
  - Rigid rapier
  - Single rapier
  - Double rapier
- Q.10 The process of dividing the warp yarns into two layers is called as
- Shedding
  - Picking
  - Beat-up
  - Take-up

## SECTION-B

**Note:** Objective type questions. All questions are compulsory.  $(10 \times 1 = 10)$

- Q.11 Rapier is a \_\_\_\_\_ used to insert weft through the shed.
- Q.12 Tell anyone use of tuck selvedge.
- Q.13 List anyone merits of airjet loom.
- Q.14 Define shuttle.
- Q.15 List one function of relay nozzle in airjet loom.
- Q.16 High pressure water stream is used in water jet loom. (True/False)
- Q.17 Tell one function of heald shaft in a loom.
- Q.18 Projectile runs through the \_\_\_\_\_ during weft insertion.
- Q.19 List any two advantages of tucked Selvedge.
- Q.20 Tell any two advantage of air jet loom

## SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions.  $(12 \times 5 = 60)$

- Q.21 What is the importance of profile reed in air jet loom?
- Q.22 Explain the factors affecting Water-jet weft insertion
- Q.23 Explain the need of Shuttleless picking
- Q.24 What is conventional selvedge?
- Q.25 How tucked selvedge are formed?