

- Q.25 Classify rapier shuttleless looms by the type of rapier used and also according to the method of weft insertion.
- Q.26 Explain the features of weft insertion by air-jet loom.
- Q.27 Write about the confuser and its function.
- Q.28 Discuss the importance of profile reed with diagram.
- Q.29 Give a brief outline of main mechanisms of water jet loom.
- Q.30 Discuss the selvage formed in water-jet loom.
- Q.31 Explain the main advantages of water-jet loom.
- Q.32 Write about the demerits of water jet loom.
- Q.33 Construct the diagram of air jet nozzle and name its different parts.
- Q.34 Explain the tucked selvage.
- Q.35 Explain the Gabler system of weft insertion.

#### SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain the advantages and disadvantages of modern weaving machines.
- Q.37 Discuss the Weft insertion in a projectile loom with neat and clean diagram.
- Q.38 Explain the weft insertion in a water jet loom with neat and clean diagram.

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182552/122552/032552

#### 5th Sem / Branch : Text,. Design. Sub.: Fabric Manufacturing - III

Time : 3Hrs.

M.M. : 100

#### SECTION-A

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

- Q.1 Modern weaving machines are \_\_\_\_\_.  
a) Shuttle looms  
b) Shuttle less looms  
c) Handlooms  
d) Manual picking looms
- Q.2 Rapiers in a rapier loom may be \_\_\_\_\_.  
a) Rigid  
b) Telescoping  
c) Flexible  
d) All of these
- Q.3 Air jet looms are also known as \_\_\_\_\_.  
a) Hydraulic  
b) Pneumatic  
c) Rapier  
d) Hydraulic
- Q.4 Which process is eliminated in shuttleless looms?  
a) Beaming  
b) Pirn winding  
c) Warping  
d) Sizing

Q.5 Depth of shed is \_\_\_\_\_ in shuttleless looms than the shuttle looms.

- a) Equal to shuttle looms
- b) Larger
- c) Smaller
- d) None of these

Q.6 The picking motion is \_\_\_\_\_ in shuttleless looms.

- a) Manually operated    b) Negative
- c) Positive                      d) None of these

Q.7 Distance covered by single phase rapier for pick insertion is equal to approximately \_\_\_\_\_ pick.

- a) One                              b) Two
- c) Three                          d) Four

Q.8 The supply package in rapier looms is in the form of \_\_\_\_\_.

- a) Cheese                          b) Cone
- c) Bobbin                          d) All of these

Q.9 In pneumatic looms the weft is inserted by \_\_\_\_\_.

- a) Oil pressure                  b) Air pressure
- c) Water pressure              d) All of these

Q.10 In water jet loom the warp is not sized but \_\_\_\_\_.

- a) Moderately twisted    b) Less twisted
- c) Up twisted                  d) None of these

## SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

Q.11 What is weaving?

Q.12 Power consumption is \_\_\_\_\_ in shuttle less looms than the shuttle loom.

Q.13 Tension in weft yarn in air-jet loom is \_\_\_\_\_ than the shuttle loom.

Q.14 Define a selvedge.

Q.15 Who invented the first successful air-jet loom?

Q.16 Name the nozzle used at the receiving end for the weft in air jet loom.

Q.17 IN water jet loom shedding is done by \_\_\_\_\_.

Q.18 Which type of yarn is used as weft in water jet loom?

Q.19 Which type of selvedge is produced on the left side on rapier loom?

Q.20 The projectile loom is also known as \_\_\_\_\_.

## SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 Write in brief about the projectile loom.

Q.22 Discuss in brief about the hydraulic loom.

Q.23 Explain the conventional selvedge with diagram.

Q.24 What are the cross leno selvedges? Explain with diagram.