

machines.

- Q.27 Discuss about the single phase and double phase rapier looms.
- Q.28 What are the demerits of water jet looms?
- Q.29 Discuss about the cross leno selvedge with diagram.
- Q.30 Explain the functions of confusors in air jet looms.
- Q.31 List any five advantages of water jet looms.
- Q.32 Explain the features of projectile weaving.
- Q.33 Give the classification of rapier looms.
- Q.34 Discuss the function of weft accumulator in modern looms.
- Q.35 Discuss the working principle of dewas system of weft Insertion.

#### Section-D

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

- Q.36 Explain the weft insertion sequence of air jet weaving machine with well-illustrated diagram.
- Q.37 Explain the working principle of projectile weaving machine with the help of a net and clean diagram.
- Q.38 Discuss comparison between gabler and dewas system of weft insertion in rapier weaving machines.

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**5th Sem., Branch : Text. Desgn  
Subject : Fabric Manufacturing - III**

Time : 3 Hrs.

M.M. : 100

#### SECTION-A

**Note: Multiple type Questions. All Questions are compulsory. (10x1=10)**

- Q.1 Shuttle less looms are the weaving machine which
- a) Uses shuttles for weaving
  - b) Only weave on weekends
  - c) Require hand weaving
  - d) Don't use shuttles for weaving
- Q.2 What is the primary tool used in a handloom for weaving?
- a) Sewing machine
  - b) Hammer
  - c) Shuttle
  - d) Blender
- Q.3 Which of the following is a type of loom used for weaving that is operated by hand?
- a) Air jet loom
  - b) Handloom
  - c) Water jet loom
  - d) Projectile loom
- Q.4 What is the use of reed in weaving machine
- a) Shedding
  - b) Picking
  - c) Beat-up
  - d) Let-off

- Q.5 Water jet looms use which elements to help Insert the weft yarn through the warp threads?
- Air
  - Electricity
  - Fire
  - Water
- Q.6 Relay nozzles are commonly used in which type of textile machinery?
- Sewing machines
  - Handlooms
  - Washing machines
  - Airjet weaving machines
- Q.7 What is the purpose of a weft accumulator in weaving?
- To measure the length of the warp
  - To control the colour of the fabric
  - To store excess weft yarn temporarily
  - To adjust the tension of the warp
- Q.8 What is the main function of a heald shaft in a weaving loom?
- To store extra weft yarn
  - To guide the shuttle
  - To support the warp threads
  - To adjust the loom's speed
- Q.9 Which type of selvedge is commonly used in modern looms
- Leno selvedge
  - Tucked in selvedge
  - Fringe selvedge
  - All of the above
- Q.10 Which type of weft insertion system is used in rapier looms
- Gripper weft insertion
  - Shuttle weft insertion
  - Projectile weft insertion
  - Air jet weft insertion

### Section-B

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

- Q.11 Profiled reed is used in \_\_\_\_\_ loom.
- Q.12 Tell the function of weft cutter in a shuttle less loom
- Q.13 List any two types of rapier loom.
- Q.14 Define selvedge.
- Q.15 Tell the function of temple in a loom.
- Q.16 \_\_\_\_\_ loom uses water with high pressure for picking.
- Q.17 Tell one merit of using flexible rapier in a rapier shuttle less loom
- Q.18 Write the function of relay nozzle in airjet loom.
- Q.19 Tell one demerit of water jet loom.
- Q.20 List any two weaving defects.

### Section-C

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

- Q.21 What do you understand by unconventional weaving machines?
- Q.22 Differentiate between shuttle and shuttle less picking mechanism.
- Q.23 List any five merits of air jet weaving machines.
- Q.24 Discuss features of water - jet weaving machine.
- Q.25 Write any five advantages of modern picking mechanism.
- Q.26 Explain the importance of profile reed in air jet weaving