Scheme - I

Sample Question Paper

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Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

Q.1 Attempt any FIVE of the following.

- a. State the merits of shuttle less looms.
- b. State the limitations of shuttle looms.
- c. List various types of projectiles used on projectile loom.
- d. Distinguish between impulsive beatup and crank beatup mechanism.
- e. State the functions of leno device on rapier weaving machine.
- f. Classify the different rapier weaving machine.
- g. List the quality requirement of air for air jet weaving machines.

Q.2 Attempt any Three of the following.

- a. Describe with neat sketch working of torsion bar picking mechanism.
- b. Distinguish between loop transfer and tip transfer technic of rapier weaving machine.
- c. State the principle of air jet weaving machine.
- d. State the working principle of needle loom with neat sketch.

Q.3) Attempt any Three of the following.

- a. Draw the schematic diagram of cam beatup mechanism and label its parts
- b. Classify the shuttle less weaving machines with respect to its picking mechanism
- c. Explain the working of accumulators and write their functions.
- d. Describe the working principle of circular loom with sketch.

(10 Marks)

(12 Marks)

Q.4) Attempt any Three of the following.

- a. Describe with sketch the various driving mechanism of rapier weaving machine.
- b. State the limitations of plain power looms.
- c. Compare between leno selvedges and tuck selvedge with schematic diagrams
- d. State the various developments of air jet loom reed with its merits.
- e. Draw the schematic diagram of multiphase weaving mechanism and state it's working.

Q.5) Attempt any Two of the following.

- a. Describe with sketch the picking mechanism of water jet loom and state the concept of lead angle
- b. Draw the schematic diagram of picking cycle of projectile picking mechanism.
- c. State the yarn quality requirements for shuttle less looms.

Q.6) Attempt any Two of the following.

- **a.** Describe the pick insertion cycle of multiphase weaving machine.
- b. Describe the picking cycle of rapier weaving machine with sketch.
- c. Describe the various types of selvedges used in weaving and List their merits and demerits.

(12 Marks)

(12 Marks)

Scheme - I

Sample Test Paper - I

Program Name	: Diploma in Textile Manufacturers	
Program Code	: TX	22678
Semester	: Sixth	
Course Title	: Shuttle less Weaving	
Max. Marks	: 20	Time: 1 Hour

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

Q.1 Attempt any FOUR.

- a. State the salient features of plain power looms.
- b. State the merits of shuttle less looms
- c. Differentiate between crank beat up and cam beat up mechanism.
- d. Enlist various types of rapier driving mechanisms.
- e. State the principle of projectile weaving mechanism.
- f. State salient features of projectile weaving machine.

Q.2 Attempt any THREE.

- a. Distinguish between Devas and Gabbler rapier weaving system.
- b. Explain the working of loop transfer technic in rapier weaving machine.
- c. State the merits and demerits of telescopic rapier driving system.
- d. List the different types of projectile and classify them into different categories as per applications.

(08 Marks)

Scheme - I

Sample Test Paper – II

Program Name	: Diploma in Textile Manufacturers	
Program Code	: TX	22678
Semester	: Sixth	
Course Title	: Shuttle less Weaving	
Max. Marks	: 20	Time: 1 Hour

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

Q.1 Attempt any FOUR.

- a. State the functions of profile reed in air jet weaving machine.
- b. State the functions of tandom nozzle.
- c. State the importance of relay nozzle in air jet weaving machine.
- d. State the importance leno binding in shuttle less loom.
- e. State application of water jet looms.
- f. Classify the jet weaving machines.

Q.2 Attempt any THREE.

- a. Describe the working mechanism of needle looms.
- b. Describe the working of tuck in selvedge mechanism on shuttle less looms.
- c. State the yarn requirements for shuttle less looms.
- d. Describe the working mechanism of circular looms with relevant sketches.

(08 Marks)