

# 22678

**24225**

**3 Hours / 70 Marks**

Seat No. 

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- Instructions* – (1) All Questions are *Compulsory*.  
(2) Answer each next main Question on a new page.  
(3) Illustrate your answer with neat sketches wherever necessary.  
(4) Figures to the right indicate full marks.  
(5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

- 1. Attempt any FIVE of the following:** **10**
- a) Give classification of shuttle less loom.
  - b) State the advantage of shuttle looms.
  - c) Enlist major parts of projectile picking mechanism.
  - d) Give classification of rapier weaving machine.
  - e) List the quality requirement of air for airjet weaving machine.
  - f) Enlist advantages of multiphase weaving.
  - g) State the types of accumulator used on shuttle less loom.
- 2. Attempt any THREE of the following:** **12**
- a) Give advantages and disadvantages at shuttle loom.
  - b) Explain construction and working of torsion bar picking mechanism.
  - c) Distinguish between Dewas and Gabler system used for weft transfer.
  - d) Distinguish between Airjet and Waterjet weaving machine.

P.T.O.

- 3. Attempt any THREE of the following:** **12**
- a) Explain the need of shuttleless weaving machine in today's scenario.
  - b) Describe with neat sketch match cam beat-up used on projectile weaving machine.
  - c) Enlist various types of Rapier drives and explain any one with neat figure.
  - d) Explain with neat figure picking cycle of waterjet weaving machine.
- 4. Attempt any THREE of the following:** **12**
- a) Explain with neat figure picking cycle of projectile weaving machine.
  - b) Define the term lead angle. State its importance with respect to quality control of fabric.
  - c) Enlist various types of products produce on needle loom. Give advantage and dis-advantage of needle loom.
  - d) Give salient features of circular weaving machine.
  - e) Enlist and explain various types of sewed gas used on shuttle less weaving machine.
- 5. Attempt any TWO of the following:** **12**
- a) Explain importance of air quality requirement of airjet weaving machine draw and explain air distribution system.
  - b) Explain pick insertion cycle circular weaving machine.
  - c) Explain construction and working of terry attachment used on repair weaving machine.
- 6. Attempt any TWO of the following:** **12**
- a) Explain in detail salient features of projectile weaving machine.
  - b) Explain in detail precautions to be taken at warp preparatory for shuttle less weaving machine.
  - c) Explain with neat sketch any type of accumulator used in shuttle less weaving machine.
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