

# 22678

**12425**

**03 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 answers 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) State disadvantages of shuttle loom.
  - b) Distinguish between shuttle loom and shuttle less loom.
  - c) Enlist various types of projectiles along with there specifications.
  - d) Sketch the figure of Impulsive beat-up used on seizer projectile weaving machine.
  - e) Sketch the figure of Bi-phase rapier technology.
  - f) Enlist various types of weft transfer mechanism used in rapier weaving.
  - g) Enlist factors to be considered while sizing yarn for water Jet weaving machine.

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- 2. Attempt any THREE of the following :** **12**
- a) Describe with neat sketch Torsion bar picking mechanism used on projectile weaving machine.
  - b) Explain construction and working of Biphase wearing machine.
  - c) Enlist and explain water quality parameters required for water Jet weaving machine.
  - d) Give salient features of multiphase loom.
- 3. Attempt any THREE of the following :** **12**
- a) Describe with neat sketch pock insertion cycle used on projectile machine.
  - b) Give details classification of shuttle less weaving machine.
  - c) Enlist various selvages produced on shuttle less weaving machine. Explain any one selvedge with neat figure.
  - d) Explain construction and working of multiphase weaving machine.
- 4. Attempt any THREE of the following :** **12**
- a) Enlist various types of rapier drives used on rapier weaving machine. Explain with neat figure cyclodial type of rapier drive.
  - b) Differentiate between Air jet and Water jet weaving machine.
  - c) Enlist various types of weft accumulation explain any one of them with neat figure.
  - d) Explain air quality requirement for air jet weaving machine.
  - e) Enlist various types of fabrics produced on needle loom. Explain construction and working of needle loom.

- 5. Attempt any TWO of the following :** **12**
- a) Sketch and explain picking cycle of air jet weaving machine.
  - b) Distinguish between loop transfer and tip transfer technic of rapier weaving machine.
  - c) Differentiate between selvages produced on seizer projectile weaving machine and fluid jet weaving machine.
- 6. Attempt any TWO of the following :** **12**
- a) Explain construction and working of circular weaving machine.
  - b) Explain with neat figure picking cycle of Rapier weaving machine.
  - c) Enlist yarn quality requirements for shuttle less weaving machine and explain importance of quality requirement.
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