

22678

23124

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) Figures to the right indicate full marks.
(4) Assume suitable data, if necessary.
(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**
- Enlist advantages of shuttleless loom.
 - Give classification of shuttleless looms.
 - Give specification of various projectiles used on projectile machine.
 - Draw figure of match cam beatup of profeeble weaving machine.
 - Give classification of rapier weaving machine.
 - Distinguish between loop transfer and tip transfer method used on rapier weaving machine.
 - Define the term lead angle on water jet weaving machine.

P.T.O.

- 2. Attempt any THREE of the following :** **12**
- a) Explain construction and working of torsion bar picking mechanism.
 - b) Explain construction and working of Biphase rapier machine.
 - c) Explain weft insertion cycle of airjet weaving machine with neat figure.
 - d) Give salient features of multiphase weaving machine.
- 3. Attempt any THREE of the following :** **12**
- a) Explain salient features of projectile weaving machine.
 - b) Justify need of shuttleless weaving machine with increase in demand of fabric.
 - c) Enlist various types of selvages used on shuttleless weaving machine and explain one of them with figure.
 - d) Explain construction and working of circular weaving machine.
- 4. Attempt any THREE of the following :** **12**
- a) Draw and explain various types of rapier heads used on rapier machine.
 - b) Explain the limitations of shuttle loom.
 - c) Explain the formation of tucked selvedge with neat figure.
 - d) Draw diagrams of confuses, relay nozzle and profile read and explain the same.
 - e) Enlist various types of fabrics manufactured on needle loom and circular loom with their applications.

- 5. Attempt any TWO of the following :** **12**
- a) Enlist the air quality requirement of airjet weaving machine and draw the distribution system.
 - b) Explain picking cycle of projectile weaving machine with neat figure.
 - c) Give classification of weft accumulator and explain any one of them.
- 6. Attempt any TWO of the following :** **12**
- a) Describe with neat sketch picking cycle of needle loom.
 - b) Enlist various types of rapier drives. Explain with figure any two of them.
 - c) Justify the statement, “special yarn and preparatory has to be selected for shuttleless weaving machine”.
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