

22581

11920

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 answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (7) 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) Choose the shedding mechanism for weaving a fabric having design repeat on 12 picks.
 - b) Decide the position of heald shaft if hole is punched in the paper of paper cam doobby.
 - c) Name the device on doobby which help in repair of broken picks and to take the loom at correct shed, during restarting.
 - d) Justify use of single lift Jacquard in handloom for weaving silk fabric.
 - e) Select the shedding mechanism if two or three different weaves are required to be woven for the same number of heald eyes and drawing order.

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- f) State the object of dropbox motion.
- g) State meaning of single lift and double lift doobby.

2. Attempt any THREE of the following: 12

- a) Explain the working of negative cam doobby with sketch.
- b) Explain the working of double lift double jack doobby with schematic diagram.
- c) Explain the working of double lift double cylinder jacquard with line sketch.
- d) Draw the sketch of different steel pattern cards used for selecting the feeler in cow burn and peck's drop box 100 m Eg. single box, double box, triple box movement and neutral card.

3. Attempt any THREE of the following: 12

- a) Draw the sketch of any two heald reversing motions used on negative doobby.
- b) Explain heald selection mechanism of paper cam doobby with sketch.
- c) Illustrate three different harness ties in jacquard with simple diagram.
- d) Explain the casting out in jacquard with suitable example.

4. Attempt any THREE of the following: 12

- a) Explain any positive doobby with sketch.
- b) List the advantages of Rotary doobby.
- c) Illustrate harness building with sketch comprising books, neck cord, harness cord, lingues comber board and heald wire.
- d) With sketch explain weft mixing mechanism used by drop box motion.
- e) State different feeler used on automatic loom, explain photo electric feeler with neat diagram.

- 5. Attempt any TWO of the following:** **12**
- a) List the features of electronic dobbie what are its advantages over mechanical dobbie.
 - b) Explain the working of electronic jacquard with sketch.
 - c) Explain the working of warp stop motion with sketch.
- 6. Attempt any TWO of the following:** **12**
- a) Explain working of any one semi positive let off mechanism with sketch.
 - b) Explain side weft fork mechanism with sketch.
 - c) Compare ordinary loom with automatic loom.
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