

22581

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) 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) Distinguish between double lift single jack and double lift double jack doobby.
 - b) State the limitations of tappet shedding. State need for doobby with suitable example.
 - c) State the function of modulator in rotary doobby.
 - d) State advantages of rotary doobby.
 - e) State the need for jacquard shedding mechanism with the help of an example.
 - f) State advantages of double lift jacquard over single lift jacquard.
 - g) State the need for drop box motions. List down different drop box motions with the help of an example.

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- h) State the functions of side weft fork mechanism. State its disadvantage (Shortcoming)

2. Attempt any THREE of the following. 12

- a) Describe with neat sketch working of paper cam doobby.
- b) Describe working of double lift double cylinder jacquard with the help of a neat diagram.
- c) Explain weft mixing concept. Explain how it is achieved by drop box mechanism.
- d) Elaborate demerits of ordinary loom. Also explain how autoloom removes one of the major demerit.

3. Attempt any THREE of the following. 12

- a) Explain heald selection mechanism on paper cam doobby.
- b) Elaborate the method of transferring an artist's sketch on graph paper. Explain how would you select the count of graph paper.
- c) State function of weft feeler on auto loom. List down various type of weft feeler used on auto loom.
- d) State object of warp stop motion on loom. List down types of warp of motions and explain any one with a neat sketch.

4. Attempt any THREE of the following. 12

- a) Explain the working of mechanical rotary doobby with a neat sketch.
- b) Explain concept of figuring capacity of jacquard with help of an example. Explain casting out in jacquard.
- c) Draw diagram of pirn changing mechanism on automatic loom and label the parts.
- d) Explain working of Cimmco semi positive let-off mechanism with the help of a neat labelled diagram.
- e) Explain working of centre weft fork mechanism with the help of a sketch.

5. Attempt any TWO of the following.**12**

- a) Explain in detail working of cross-border doobby with the help of a diagram.
- b) Explain working of electronic rotary doobby. State its features and advantages.
- c) Explain construction and working of cross border jacquard with the help of an example.

6. Attempt any TWO of the following.**12**

- a) Explain the method of pegging for left hand doobby with the help of a relevant example.
 - b) Explain construction and working of electronic jacquard. Explain its features and advantages over mechanical jacquard.
 - c) Prepare a card chain for following weft pattern:
4 picks with red weft
12 picks with white weft
6 picks with black weft
10 picks with brown weft
32 picks per weft pattern
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