

22581

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 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) List down various types of dobbies.
 - b) Name the heald reversing mechanisms used on dobbies.
 - c) State 2-Advantages of a positive dobbie.
 - d) State the concept of “Casting-out” in Jacquard with the help of an example.
 - e) State the objectives of Drop box mechanism.
 - f) List the different types of weft feelers used on Automatic loom.
 - g) State the necessity of warp and weft stop motion on automatic weaving machine.

P.T.O.

- 2. Attempt any THREE of the following :** **12**
- a) Describe with a neat sketch construction and working of a paper cam dobbie.
 - b) Explain the method of transferring design on graph paper from motif for Jacquard.
 - c) i) List down the various types of cards used on drop-box mechanism and draw them.
ii) Explain the necessity of card saving device.
 - d) Distinguish between central weft fork and side weft fork motion.
- 3. Attempt any THREE of the following :** **12**
- a) Explain the working of positive dobbie with neat sketch.
 - b) Describe with neat sketch construction and working of single lift single cylinder jacquard.
 - c) Differentiate between ordinary weaving machine and automatic weaving machine.
 - d) Explain working of electrical warp stop motion with neat sketch.
- 4. Attempt any THREE of the following :** **12**
- a) Describe with neat sketch the construction and working of double lift double jack dobbie.
 - b) Enlist the features and advantages of rotary dobbie.
 - c) List down various types of harness ties used on jacquard. Explain any one with a neat sketch.
 - d) Describe with neat sketch construction and working of centre weft fork mechanism. State advantages of the same.
 - e) Explain the working of semi-positive let-off motion with the help of a neat sketch.

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

- a) Elaborate the pegging method for right hand dobby for $\frac{2}{2} \frac{3}{1}$ (RHS) twill weave.
- b) Describe with neat sketch the construction and working of mechanical rotary dobby.
- c) Explain the working of double lift double cylinder Jacquard with a neat sketch.

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

- a) Explain working of an electronic jacquard with the help of schematic diagram. State features of the same and its advantages over mechanical jacquard.
 - b) Prepare the drop-box card chain for following weft pattern
4 - Red
4 - green
12 - white
10 - black

30

 picks
 - c) With a neat sketch, explain the working of pirn changing mechanism.
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