

22581

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 the limitations of tappet shedding.
 - b) Enlist four advantages of dobby shedding.
 - c) State advantages of paper cam dobby in respect to functionality economy and suitability.
 - d) State advantages of rotary cam dobby in respect to speed, suitability and economy.
 - e) Enlist four types of commercial fabrics produced on Cross border jacquard.
 - f) Enlist four types of harness ties used on jacquard weaving machine.
 - g) State four objects of drop box motion with respect to type of fabric produced.

P.T.O.

2. Attempt any THREE of the following: 12

- a) Describe with neat sketch construction and working of paper cam dobby with respect to drive, selection mechanism.
- b) Describe with sketch construction and working of double lift double Cylinder Jacquard.
- c) Distinguish between pick at will and pick and pick mechanism used on drop box motion.
- d) Distinguish between ordinary loom and automatic loom with respect to machine speed, quality of fabric and products.

3. Attempt any THREE of the following: 12

- a) Explain the advantages and features of Electronic dobby with respect to speed, developments and functionality.
- b) Describe with sketch construction and working of cross border jacquard with respect to its usefulness and products being manufactured.
- c) Draw a schematic diagram of Pirn changing mechanism used on automatic loom showing following components:
 - i) Swan neck
 - ii) Pillar
 - iii) Bunter
 - iv) Latch
- d) Classify various types of warp stop motion and explain electronic warp stop motion with respect to construction details, functionality and suitability.

- 4. Attempt any THREE of the following:** **12**
- a) Compare the feature of paper cam dobby and rotary cam dobby with respect to speed, functional ability and suitability to produce fancy proven fabric.
 - b) Explain the method of transferring design on graph from mobt while preparing a pattern card for jacquard.
 - c) Describe with neat sketch construction of warp stop motion with reference to its working principle drive.
 - d) Enlist various types of feelers used for detecting weft on pirn, choose the suitable feeler for weaving delicate filament yarn and explain its construction and working with neat figure.
 - e) Describe construction and working of centre weft work motion with respect to working principle and its advantage over side weft fork motion.
- 5. Attempt any TWO of the following:** **12**
- a) Describe with neat labelled sketch construction and working of climax dobby.
 - b) Describe with neat sketch construction and working of rotary cam dobby with respect to working principle, constructional details and functional ability.
 - c) Describe with neat sketch construction and working of double lift single Cylinder Jacquard by labelling cylinder, hooks, needles knives, lingo, harness etc.
- 6. Attempt any TWO of the following:** **12**
- a) Demonstrate the method of dobby pegging for $2/3$ 'Z' twill, when loom is right handed.
 - b) Enlist different types of Jacquard harness ties used. Explain with neat sketch norwitch system of Jacquard mounting with reference to its advantage and disadvantage in industry.
 - c) Prepare a card chain for weft colour pattern of your choice without card saving device.
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