

# 17345

**11819**

**3 Hours / 100 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: **20****
- a) Enlist various types of shed. Explain any one of them with its advantages and disadvantages.
  - b) Write classification of dobbies and state the function of modulator in doobby.
  - c) What is need of Drop - box mechanism and classify drop-box.
  - d) Describe the function of tensioner and list various types of tensioners used on creels of warping machine.
  - e) Differentiate between Tappet shedding with Dobby shedding mechanism. (any eight)
  - f) Enlist various types of harness ties.
  - g) Explain casting out methods used in Jacquard.
  - h) State the salient features of modern warping machine. (any eight)

P.T.O.

- 2. Attempt any TWO of the following:** **16**
- a) Enlist various types of creels used on warping machine and explain with a neat figure.
  - b) What is object of section warping machine? Explain a passage of yarn through sectional warping machine with neat sketch.
  - c) (i) Describe any one method of harness tie used on Jacquard with neat diagram.  
(ii) List steps involving in transferring a design on graph paper.
- 3. Attempt any TWO of the following:** **16**
- a) Calculate the production of warping machine in kg/shift with following parameters:
    - (i) Warp count -  $40^s$  Ne
    - (ii) Warping m/c speed - 600 mt/min
    - (iii) Efficiency - 70%
    - (iv) Total ends - 600
  - b) Describe with neat sketch, construction and working of cam dobbie.
  - c) Explain with neat sketch. construction and working of double - lift double cylinder jacquard.
- 4. Attempt any TWO of the following:** **16**
- a) Prepare pattern lattice chain for LHS dobbie with 8-end sateen. (Draw design, draft and peg plan)
  - b) Prepare drop-box card chain without card saving mechanism.
    - (i) Yellow - 4 picks
    - (ii) Black - 6 picks
    - (iii) Orange - 4 picks
    - (iv) White - 2 picks
  - c) Explain method of card - cutting and card lacing.

**5. Attempt any TWO of the following:****16**

- a) Explain construction and working of 2-cylinder cross-border dobbie with neat sketch.
- b) With neat figure explain construction and working of cow burn and peck drop box mechanism.
- c) Describe construction and working of Electronic Jacquard also write 4 - advantage over mechanical Jacquard.

**6. Attempt any TWO of the following:****16**

- a) Describe with neat sketch working of Heald selection on paper pattern dobbie.
  - b) (i) Write a note on pick at will mechanism.  
(ii) What are the various types of card used on drop - box mechanism also explain necessity of card saving mechanism.
  - c) Explain with neat sketch working of single lift single cylinder Jacquard.
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