

# 17691

**15162**

**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.

**Marks**

- 1. Attempt any FIVE of the following: 20**
- State the method to establish standard norms?
  - Enumerate direct and indirect method of process control in weaving with one example.
  - How to minimise end breaks at warping process.
  - State the various factors affecting choice of size recipe and state their importance.
  - Mention steps of care to be taken during size paste preparation.
  - Enlist steps to be taken to minimize end breaks at weft winding?
  - How the looms given to weaver are optimised?
- 2. Attempt any TWO of the following: 16**
- Describe four important objectives of process control in weaving.
  - Mention causes and remedies of low productivity at warping.
  - Enumerate various defects occurs at warping with proper reasoning.

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- 3. Attempt any TWO of the following:** **16**
- a) Give sizing beam defects and remedies.
  - b) Describe various factors affecting size pick-up.
  - c) Sketch and give details of different reeds and healds wires. And state their selection criteria for use.
- 4. Attempt any TWO of the following:** **16**
- a) Suggest size recipe and pick-up % for coarse count sheeting fabric preparation.
  - b) Mention four points in detail to reduce size losses at sizing.
  - c) State the procedure of beam dressing and knotting.
- 5. Attempt any TWO of the following:** **16**
- a) Compare individual drive and group drive at loom shed for eight points.
  - b) Describe 10 point system of fabric inspection.
  - c) Discuss the various points to be considered while selecting shuttle and list care to be taken while it is used.
- 6. Attempt any TWO of the following:** **16**
- a) Describe process waste and incidental waste of sizing department.
  - b) Mention care to be taken while preparing a package for dyeing.
  - c) Give the process chart with details for manufacturing voile fabric.
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