

17691

11920

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) Briefly elaborate the approach to process control in weaving.
 - b) List down steps involved in methodology of direct process control.
 - c) List down steps involved in minimising end breaks at warping.
 - d) List down various aspects which need to be taken into consideration for exercising process control program in sizing.
 - e) Give details of care to be taken in dressing of beams and drawing in procedure.
 - f) Describe the approach to control productivity at loom shed.
 - g) List down various causes of warp streaks.
 - h) Describe in brief precautions to be taken for preparation of cones/cheeses for dyeing.

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- 2. Attempt any TWO of the following:** **16**
- a) Describe the methods of setting norms and deciding on suitable schedule of checks for exercising process control program.
 - b) Describe various points to be considered for controlling quality of warping beams.
 - c) List down various factor on which productivity of warping machine depends.
- 3. Attempt any TWO of the following:** **16**
- a) Why determination of stretch is done at sizing. Discuss how stretch can be controlled at various zones in sizing.
 - b) (i) List down various factors which affect size pick up.
(ii) What are lappers? What are the reasons for getting lappers? How does it affect quality of sized beam and in turn loom efficiency?
 - c) (i) Write a detailed note on determination of size pickup and care to be taken during size paste preparation.
(ii) Describe the method not controlling productivity and efficiency at pirn winding.
- 4. Attempt any TWO of the following:** **16**
- a) Elaborate various care is taken while selection and use of heald frames and reed.
 - b) List down various factors which affect loom efficiency.
 - c) Elaborate the method to assess loom performance and control of efficiency through snap technique. Calculate the minimum number of rounds required for snap study.

- 5. Attempt any TWO of the following:** **16**
- a) Describe how loom speed is controlled for group drive and individual drive. List down various factor affecting loom speed.
 - b) Enlist various major fabric defects. Give causes and remedies for any two.
 - c) Describe how process and incidental waste can be controlled in winding, warping sizing and pirn winding departments.
- 6. Attempt any TWO of the following:** **16**
- a) List down various precautions to be taken while processing polyester blended yarn on winding, warping and sizing machines.
 - b) What is the characteristic of voile yarn? Describe in detail the processes involved for manufacturing voile fabric.
 - c) (i) Write a detailed note on care and selection of shuttle.
(ii) Explain various mechanical failure of looms.
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