

17691

21415

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) 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) Method of direct control, is best for process control. Justify the statement.
 - b) How the norms are set while exercising process control in weaving?
 - c) How to check the performance of warping machine with norm?
 - d) Mention standard temperature and humidity at warping with its effect on performance.
 - e) Give steps in preparation of size paste and care to be undertaken for the same.
 - f) Draw different drop-pins designs, dimensions and uses.
 - g) State care to be taken during winding packages to be used for dyeing.
 - h) List down various measures to control sized beam quality.

P.T.O.

- 2. Attempt any TWO of the following: 16**
- a) How Statistical Quality control tools help in interpretation of data analysis at process control?
 - b) Enumerate key variables at warping and causes of low productivity.
 - c) State the factors affecting size pick up %.
- 3. Attempt any TWO of the following: 16**
- a) What is the importance of stretch control at each zone? Describe method of determination of stretch.
 - b) Sketch different heald wires and reeds. Write their function.
 - c) How to control build of pirn? Why?
- 4. Attempt any TWO of the following: 16**
- a) Mention the factors affecting loom shed efficiency in ascending order of importance.
 - b) How to decide number of snap study rounds in loom shed to know efficiency within $\pm 1\%$ accuracy?
 - c) Compare individual drive and group drive eight points.
- 5. Attempt any TWO of the following: 16**
- a) Describe the process of loom allocation/operative at minimum cost of production.
 - b) Enumerate ten point system of grey fabric inspection and grading.
 - c) Give reasons and remedies for following defects.
 - (i) Crack
 - (ii) Smash
 - (iii) Curled selvedge
 - (iv) Double pick

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

- a) Write causes of process waste and incidental waste at sizing.
 - b) State properties of polyester cotton blended yarn and required care, at winding and warping only.
 - c) Describe the sequence of full voil yarn preparation, its care and testing of properties of yarn.
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