

17691

16172

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

- (a) Describe methods to establish Standard Norms.
- (b) Explain 4-steps involving in Direct Control Methodology.
- (c) Explain the causes of low productivity in warping.
- (d) How to minimize mechanical stoppages in pirn winding machine ?
- (e) Write a scope of process control in loom shed.
- (f) Mention various parameters consider while preparing package for dyeing.
- (g) List a points to be consider for weaving of PC Blended fabrics.

2. Attempt any TWO of the following :

16

- (a) Explain a Approach to process control.
- (b) State factors affecting quality of Beam in Warping.
- (c) Describe 10 point fabric Inspection System.

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

- (a) Describe factors to be consider while minimising end breakages in warping.
- (b) Explain factors affecting size pick-up.
- (c) (i) List different zones in modern sizing machine where stretch is generated and explain how to control stretch in each zone.
(ii) What is size loss and give formula to calculate the same ?

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

- (a) Calculate expected efficiency of warping machine with following particulars :
 - Speed = 350 mpm.
 - Set length = 20,000 metres.
 - Yarn length on cone = 55,000 metres.
 - No. of ends per warp beam = 500
 - End breaks per 400 ends/1000 mt = 4
 - Time to mend one warp break = 35 sec.
 - Time to change a beam = 500 sec.
 - Time to change a creel = 3000 sec.
 - Time loss due to miscellaneous causes/1000 metre = 25 sec.
- (b) (i) Sketch different types of drop wires and write their respective use.
(ii) State selection criteria for different reeds and heald wire.
- (c) Describe factors consider to improve built of pirn.

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

- (a) Compare individual drive and group drive at loom shed (any eight points).
- (b) Explain factors affecting loom efficiency.
- (c) (i) Explain any two-fabric defect with its reason and remedies.
(ii) Describe factors to be consider while selection of shuttle.

6. Attempt any TWO :**16**

- (a) List various methods to assess loom performance and how to decide no. of snap round required to know efficiency with $\pm 1\%$ accuracy.
 - (b) Explain process waste and incidental waste in sizing department.
 - (c) Write process sequence in detail for manufacturing voil fabric.
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