

17463

21314

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) State four objects of sizing.
- b) State the various elements of size box and write its function.
- c) Why cylinders are coated with teflon coating in sizing m/c.
- d) Define 'Lappers' and 'Migration'.
- e) Give the necessity of centre selvedge on automatic loom.
- f) Enumerate advantages and disadvantages of centre weft fork motion.
- g) Calculate the total No. of dents if reed count is 80's stockport and reed width 160cm.

P.T.O.

- 2. Attempt any TWO of the following: 16**
- a) Describe different ingredients and their functions used in size paste. Name two ingredients from each class.
 - b) Describe the procedure for preparation and cooking of size paste in sizing department.
 - c) Draw the schematic figure of size paste pressure cooker with all attachments.
- 3. Attempt any TWO of the following: 16**
- a) Describe with sketch the method of leasing and splitting them at lease rods for eight back beams.
 - b) Draw the schematic figure of zig zag creel and state its advantages and demerits.
 - c) Describe measuring and marking motion from sizing.
- 4. Attempt any TWO of the following: 16**
- a) How measurement of stretch is carried out?
 - b) State various factors affecting size pick-up.
 - c) What is 'Dead-loss'? How to calculate dead loss in sizing?
- 5. Attempt any TWO of the following: 16**
- a) Compare ordinary and automatic loom's w.r.t. picking and beat-up motions only.
 - b) Sketch Pirn changing mechanism and label the parts.
 - c) Describe the working of mechanical weft stop and motion starting from weft feeler.

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

- a) Compare shuttle changing motion with pirn changing mechanism.
 - b) Enumerate warp preparation required for Automatic loom at sizing only.
 - c) Describe the method, arrangement and procedure of drawing - In and denting for 5 end satin weave structure.
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