

17463

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.

Marks

1. **Attempt any TEN of the following:** **20**
- a) State objectives of sizing.
 - b) State various ingredients used in sizing.
 - c) Name different starches used in sizing paste formation.
 - d) Enlist all elements in size box.
 - e) State the principle and function of Homogeniser.
 - f) Define stretch at sizing.
 - g) Define “LAPPERS” in sizing.
 - h) Give definition of migration and its effects.
 - i) Enumerate the essential features of an AUTOMATIC LOOM.
 - j) List down different types of weft - feelers used on Automatic Loom.
 - k) State the function of centre weft fork motion in Automatic Looms.
 - l) State the different types of warp stop motion you have studied.
 - m) What are the types of Healds used in Drawing - in process?

P.T.O.

- 2. Attempt any TWO of the following:** **16**
- a) Draw diagram of a COOKER and name of parts and write a brief note on “COOKING A SIZE PASTE”.
 - b) State the importance of congealing and keeping properties of size paste.
 - c) Explain size paste properties and their importance.
- 3. Attempt any TWO of the following:** **16**
- a) Draw with name of important parts of measuring and marking motion on sizing machine and state importance of measuring and marking motion.
 - b) Explain the multi - cylinder drying system in sizing machine with neat sketch.
 - c) (i) State the importance and function of Teflon coating on drying cylinders.
(ii) Draw schematic diagram of modern size box.
- 4. Attempt any TWO of the following:** **16**
- a) State the various factors affecting migration and explain its consequence.
 - b) Describe the various factors affecting the size pick - up of a sizing machine.
 - c) Describe the “control of stretch on sizing machine at various zones.”

5. Attempt any TWO of the following: 16

- a) Sketch a pirn changing mechanism of an Automatic Loom.
Name different parts and state the working of a change of pirn.
- b) State the importance of
 - (i) Shuttle Eye cutter.
 - (ii) Three try motion
 - (iii) Shuttle protector
 - (iv) Beam feeler
- c) Enumerate importance of Weft Feeler on Automatic Loom.
Suggest the Weft Feeler suitable for continuous filament weft and explain any one.

6. Attempt any TWO of the following: 16

- a) Compare shuttle changing motion with pirn changing motion.
 - b) (i) Explain the colour retaining device on multiple box loom.
(ii) Explain centre selvedge motion on loom.
 - c) Explain selection, care and storage of Healds and Reeds.
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