

22366

12425

03 Hours / 70 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) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. **Attempt any FIVE of the following :** **10**
- a) State the objective of sectional warping.
 - b) List down various types of winding packages used for warping.
 - c) State the role of tensioner in warping.
 - d) State the advantage of section warping machine.
 - e) State the objectives of sizing.
 - f) State the concept of migration.
 - g) State the causes for lappers.

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- 2. Attempt any THREE of the following :** **12**
- a) Justify the necessity of warping. Also classify the various warping machine.
 - b) Enlist the various types of tensioner used in warping and state their merits and demerits.
 - c) Describe the method of inserting the leaves in the section warping machine with sketch.
 - d) List down various types of creels used on sizing machine. State merits and demerits of various types of creel used in sizing machine.
- 3. Attempt any THREE of the following :** **12**
- a) Distinguish between direct and indirect warping.
 - b) Distinguish between spindle driven and drum driven warping machine.
 - c) Calculate the production of direct warping m/c in kg/8 hrs if machine is running with 500 creel capacity and speed is 800 meters per minute with efficiency of 85% and yarn count is 30 NC.
 - d) Draw neat labelled sketch of multi cylinder sizing machine.
- 4. Attempt any THREE of the following :** **12**
- a) Calculate the numbers of warpers beams and ends / beam if total no. of ends required on weavers beam is 6000, and creel capacity is 580.
 - b) Describe the passage of warp through indirect warping machine with schematic diagram.
 - c) Describe the process for preparation of size paste and state various cares to be taken while preparing the size paste.
 - d) Explain the salient features of modern soly box used in sizing.
 - e) State the concept of size pick up and size add on with its formula.

5. Attempt any TWO of the following :**12**

- a) State the functions of following part in sizing.
 - i) Immersion roller
 - ii) Size roller
 - iii) Squeeze roller
- b) Define the lappers and explain the measurements of the migration in sizing.
- c)
 - i) State the importance of stop motions and expanding comb in sizing.
 - ii) State the concept of temperature and its control in drying zone.

6. Attempt any TWO of the following :**12**

- a) Explain the various methods to control the stretch in sizing at different zones.
 - b) State the factors effecting size pick-up.
 - c) Describe the passage of warp yarn through beam (direct) warping machine with neat sketch.
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