

17463

11819

3 Hours / 100 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Illustrate your answers with neat sketches wherever necessary.
 - (3) Figures to the right indicate full marks.
 - (4) Assume suitable data, if necessary.
 - (5) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.
 - (7) Use of steam tables, logarithmic, Mollier's chart is permitted.

Marks

1. Answer any TEN :

20

- (a) State the objects of sizing.
- (b) Enlist various sizing ingredients.
- (c) State the functions of creel on sizing machine.
- (d) Explain dry splitting on sizing machine.
- (e) State the importance of Teflon coating on drying cylinders.
- (f) State the importance of lease bands on sizing machine.
- (g) Write the stretch zones on Two cylinder sizing machine.
- (h) What are the causes of lappers in sizing process ?

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- (i) Classify the weft changing motion on automatic loom.
- (j) State the functions of shuttle protector on automatic loom.
- (k) Draw the sketches of types of drop wires used on automatic loom.
- (l) State the drawbacks of negative let-off motion.
- (m) State the objects of drawing-in process.
- (n) State the role of immersion roller in sow box.

2. Attempt any TWO :

16

- (a) Explain any four sizing ingredients with examples.
- (b) Explain with neat sketch size box. Also write the function of all elements in size box.
- (c)
 - (i) Explain measurement of migration and its control in sizing.
 - (ii) How do stretch effecting performance of sizing process.

3. Attempt any TWO :

16

- (a) Classify weft feelers. Explain any one of them with neat sketch.
- (b) Describe with neat sketches following :
 - (i) Types of Heads
 - (ii) Types of Reeds
- (c) Compare Non-automatic loom and ordinary loom.

- 4. Attempt any TWO :** **16**
- (a) Describe following size paste properties :
 - (i) Congealing and Keeping properties
 - (ii) Viscosity and Concentration of size paste.
 - (b) Explain with neat sketch hot air drying machine. State their merits & demerits.
 - (c) State the factors affecting size pick up. Also explain dead loss in sizing.
- 5. Attempt any TWO :** **16**
- (a) Explain with neat sketch centre weft fork motion. Compare centre weft fork and side weft fork motion.
 - (b) What are the types of shuttle changing motion ? Compare Pirn changing motion with shuttle changing motion.
 - (c) Explain the functions of the following :
 - (i) Drag Roller
 - (ii) PIV drive
 - (iii) Comb
 - (iv) Temperature control device
- 6. Attempt any TWO :** **16**
- (a) State the merits of positive let-off motion. Describe with neat sketch Ruti let-off motion.
 - (b)
 - (i) State the importance of colour retaining device on multiple box loom.
 - (ii) Write the properties of CMC.
 - (c)
 - (i) Compare automatic drawing-in-process and manual drawing-in-process.
 - (ii) Describe stretch meter on sizing machine.
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