

314357

24225

3 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) Assume suitable data, if necessary.

**Marks**

1. **Attempt any FIVE of the following :** **10**
  - (a) State the importance of process and quality control in wet processing of textiles.
  - (b) State the objective of scouring.
  - (c) State the objectives of mercerization.
  - (d) Define the term “RFT” dyeing.
  - (e) State the process control parameters for stenter.
  - (f) Define the term “Moisture Content” of fibre.
  - (g) State the objective of calendering.
  
2. **Attempt any THREE of the following :** **12**
  - (a) Explain the importance of quality assurance.
  - (b) Describe process control parameters for scouring of cotton in Kier machine.
  - (c) Enlist and elaborate process control parameters in dyeing of cotton with reactive dyes on jigger dyeing machine.
  - (d) Describe process control parameters for flat bed screen printing machine.



- 3. Attempt any THREE of the following : 12**
- (a) Describe the functions of quality assurance department in textile wet processing.
  - (b) Elaborate the process control parameters for mercerization and its effect on efficiency of mercerization.
  - (c) Elaborate the measures to be taken for achieving Right First-Time Dyeing.
  - (d) Describe process control parameters for star ager machine.
- 4. Attempt any THREE of the following : 12**
- (a) State the parameters of enzyme desizing and evaluate efficiency of the same by using weight loss method.
  - (b) Explain the effect of process control parameters on dyeing quality.
  - (c) Prepare print paste formulation for printing of cotton with direct dye by direct style and state the function of each ingredient used.
  - (d) Select suitable calender machine for cotton to improve lusture and explain process control parameters for the same.
  - (e) Elaborate the process control parameters for sanforizing machine.
- 5. Attempt any TWO of the following : 12**
- (a) State the objectives of singeing and explain the effect of controlled and uncontrolled processing parameters on singeing quality in gas singeing machine.
  - (b) Describe a method of testing whiteness index of bleached cotton fabric.
  - (c) Describe the effect of –
    - (i) Time
    - (ii) Temperature
    - (iii) Salt quantity on the exhaustion of reactive dye.
- 6. Attempt any TWO of the following : 12**
- (a) Select the print paste ingredients for discharge printing of cotton and explain the role of each ingredient used in the print paste.
  - (b) Elaborate the effect of process control parameter on finish quality of resin finished fabric.
  - (c) Elaborate the process control parameters for soft finish and stiffening on stenter.
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