

22578

11920

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

Marks

- 1. Attempt any FIVE of the following:** **10**
- Define process control.
 - State the objectives of Bleaching process.
 - Enlist the process control parameters for mercerization of cotton.
 - State the properties required for thickness for printing.
 - State the process control parameters for chemical finishes.
 - Draw a suitable sketch of decatizing machine.
 - State the objectives of calendaring process.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Explain the process control parameters required in singeing process.
 - b) Describe the scouring process for cotton fabric with suitable recipe.
 - c) Choose process control parameters in dyeing of cotton in soft flow machine.
 - d) Explain the process for pigment printing on cotton fabric.
- 3. Attempt any THREE of the following:** **12**
- a) Describe the gas singeing process for grey cotton fabric with its parameters.
 - b) Explain the importance of lab to bulk recipe formulation in dyeing.
 - c) Enlist any two problems in reactive dyeing on cotton
 - d) Explain the process control parameters for rotary screen printing machine.
- 4. Attempt any THREE of the following:** **12**
- a) Suggest process control parameters for shearing and cropping process.
 - b) Suggest the process control parameters for ager machine in printing.
 - c) Compare the process control parameters in dyeing and printing.
 - d) Explain the procedure to determine the % expression of the padding mangle.
 - e) Describe process control parameter for Sanforizer machine.

- 5. Attempt any TWO of the following:** **12**
- a) Suggest and explain the economical and eco friendly bleaching process for cotton fabric.
 - b) Justify the effect of various process control parameters on the quality, dyeability and fastness properties of dyes.
 - c) Describe the process control parameters and norms of flat bed screen printing machine with its advantages and limitations.
- 6. Attempt any TWO of the following:** **12**
- a) With suitable sketch describe the working of Jigger machine for dyeing of fabrics. Write it's advantages and limitations.
 - b) Justify Jet dyeing machine is suitable for polyester dyeing process in economical way.
 - c) Suggest a print paste formulation for discharge printing of reactive dyes cotton. State the roll of ingredients.
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