

22578

23124

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.
 - (6) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (7) 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) Enlist process control parameters in Gas Singeing process.
- (b) State the effects of MLR on the dye uptake.
- (c) State the process control parameters of Stenter machine.
- (d) Enlist process control parameters in continuous bleaching process.
- (e) State the importance of lab to bulk recipe formulation in printing.
- (f) List any two effects of percentage expression on wet pick up.
- (g) List any two effects of mesh size on the quality of printing of textiles.



- 2. Attempt any THREE of the following : 12**
- (a) Describe with neat labelled sketch, the process control parameters for Jigger dyeing machines.
 - (b) Describe with neat sketch the process control parameter for scouring of cotton in Kier machine.
 - (c) Prepare relevant process parameters along with their significance to produce a good quality singeing of cotton fabric.
 - (d) Describe the process control parameters for flat bed screen printing machine.
- 3. Attempt any THREE of the following : 12**
- (a) Explain the four point system of fabric inspection.
 - (b) Suggest relevant norms and check points for the desizing of 100% cotton using enzymes.
 - (c) Describe with neat sketch, the process parameter for rotary screen printing machine.
 - (d) Describe with neat sketch, the process control parameter for Sanforizer machine.
- 4. Attempt any THREE of the following : 12**
- (a) Describe the functions of Quality Assurance department.
 - (b) Apply weight loss method to evaluate the efficiency of desizing.
 - (c) Describe the process control parameters for soft finishing of cotton on a Stenter machine.
 - (d) Describe with neat sketch, the process control parameter for soft flow jet dyeing machine.
 - (e) Revise any two problems encountered in printing and suggest their remedies.

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

- (a) Suggest relevant process parameters and its importance for dyeing of polyester fabrics in a jet dyeing machine.
- (b) Select suitable calendering machine for cotton in order to create (i) Lustre (ii) Fine Smoothness (iii) Emboss effect.
- (c) Prepare relevant print paste formulation for discharge printing of vat dyed cotton along with the functions of each ingredient.

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

- (a) Apply relevant process control parameter and its significance in getting uniform and even dyeing of cotton yarn.
 - (b) Prepare a print paste formulation for printing of cotton with reactive dyes by direct style along with the functions of each ingredient.
 - (c) Select suitable process control parameters and machine to obtain a good quality resin finish.
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