

22578

23242

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) 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 for gas singeing
- (b) State two parameters which affects efficiency of scouring.
- (c) State relation between pressure of mangle and percentage expression.
- (d) Define 'lab to bulk' recipe formulation.
- (e) State effect of mesh size of screen on print quality.
- (f) State function of ager in printing.
- (g) State effect of drying on moisture control of fabric.

2. Attempt any THREE of the following :

12

- (a) Explain process control parameters of shearing and cropping process.
- (b) Select process control parameters for H₂O₂ bleaching.
- (c) Explain the parameters which affect fastness property of reactive dyeing on jigger dyeing machine.
- (d) Describe any two problems and its process control remedies for rotary printing process.



- 3. Attempt any THREE of the following : 12**
- (a) Describe functions of quality control department.
 - (b) State any two problems and their remedies in bleaching process of cotton using H_2O_2 .
 - (c) Describe process control parameters which affects fastness properties of dyed goods on Jet dyeing machine.
 - (d) Describe process control parameters on calenders in finishing department.
- 4. Attempt any THREE of the following : 12**
- (a) Explain effect of gas singeing parameters on quality of fabric.
 - (b) Describe method to assess scouring efficiency of cotton fabric.
 - (c) Describe process control parameters of soft flow dyeing machine.
 - (d) Prepare print paste formulation and the process control parameters for printing of cotton with reactive dye on flat bed screen printing machine.
 - (e) Describe process control parameters for sanforiser machine.
- 5. Attempt any TWO of the following : 12**
- (a) With justification explain the advantages of modern machines with respect to process control parameters.
 - (b) Prepare print paste formulation for discharge printing of cotton on rotary printing machine and state the process control parameters.
 - (c) Analyse the process control parameters for stiff finish on Stentor machine.
- 6. Attempt any TWO of the following : 12**
- (a) Detect the problems and suggest the remedies in cotton dyeing on jigger dyeing machine using vat dyes.
 - (b) Illustrate the process control parameters for rotary printing machine.
 - (c) Explain effect of process control parameters on finish quality of resin finish on a Stentor.
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