

22578

12425

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.

**Marks**

**1. Attempt any FIVE of the following :**

**10**

- (a) State the object of process control.
- (b) State the MLR of Kier and J-box.
- (c) Define the term “% shade”.
- (d) Name any two thickener used for cotton.
- (e) State the temperature of thermofixation method.
- (f) Define the term percentage expression.
- (g) State the relation between GSM and GLM.

**2. Attempt any THREE of the following :**

**12**

- (a) Describe process control parameter in gas singeing machine.
- (b) Describe process control parameter in package dyeing machine.
- (c) Describe the working of E-control machine with neat sketch.
- (d) Describe procedure for direct style printing of cotton with reactive dyes.



- 3. Attempt any THREE of the following : 12**
- (a) Describe process control parameters in enzyme desizing.
  - (b) Differentiate lab recipe formulation with bulk recipe formulation.
  - (c) Describe process control parameters in star ager.
  - (d) Describe process control parameters in calender machine.
- 4. Attempt any THREE of the following : 12**
- (a) Explain the factors affecting on right first time dyeing.
  - (b) Prepare print paste formulation for printing of polyester with disperse dye. State the role of ingredients.
  - (c) Describe process control parameters in flat bed printing machine.
  - (d) Explain process control parameters to get soft finish on cotton.
  - (e) Explain the method to evaluate crease recovery angle.
- 5. Attempt any TWO of the following : 12**
- (a) Explain 4 point fabric inspection system.
  - (b) Suggest process control parameters in bleaching of cotton to avoid uneven whiteness.
  - (c) Explain the causes and remedies for uneven dyeing.
- 6. Attempt any TWO of the following : 12**
- (a) Explain process control parameters in jet dyeing machine.
  - (b) Prepare print paste formulation for printing of cotton by discharge style. State the role of ingredients.
  - (c) Suggest process control parameters in finishing of cotton to avoid shrinkage.
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