

17567

**11920**

**3 Hours / 100 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 :**

**20**

- (a) Explain the process control parameters employed for smooth functioning of gas singeing machine.
- (b) Explain the term “Lab to Bulk recipe formulation” ? Give its significance.
- (c) What are the different methods and styles of textile printing.
- (d) Enlist any four problems and give its remedies in finishing department.
- (e) Explain the significance of carboxyl group content test & give the norms for the same.
- (f) Write down the procedure for determining the colourfastness to rubbing ? Write its significance.
- (g) Write down the specific objectives of quality control in finishing.

**2. Attempt any TWO :**

**16**

- (a) Define ‘Process Control’ and ‘Quality Control’ ? Justify the necessity of process control and approach towards process control.

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- (b) Enlist and explain the measure to achieve RFT dyeing.
- (c) Write the norms for BAN and Axial Ratio tests ? Give its significance & the procedure also.
- 3. Attempt any TWO :** **16**
- (a) Write down the norms and check points along with process control parameters in mercerisation of cotton & P/C blends.
- (b) Enlist the various problems and explain its remedies in dyeing department.
- (c) Write down the process control parameters for flat bed screen printing machine. Enlist the problems and its remedies too.
- 4. Attempt any TWO :** **16**
- (a) Describe the method of working quality department in textile industry.
- (b) State the production norms and process control parameters for stenters and sanforising machines.
- (c) Write down the procedure and quality control norms for bending length and crease recovery angle test.
- 5. Attempt any TWO :** **16**
- (a) Write down the process control norms, parameters and check points for continuous bleaching range.
- (b) Describe effective production control & state its production norms in rotary printing machine.
- (c) Write the problems & their remedies on calendars and drying range. Also state the production norms of the same.
- 6. Attempt any FOUR :** **16**
- (a) Write the procedure of determining the colour fast to light. Write the norms also.
- (b) Write a note on the Iodine absorption test method. Give its significance.
- (c) Explain the procedure of copper number test and give its significance.
- (d) Write a note on the test for determining colour fastness to washing.
- (e) Write a note on the various tests which are carried out in finishing department for controlling quality.
- (f) Write the recipe, procedure and the significance of determining colour fastness to perspiration.
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