

17458

**21819**

**3 Hours / 100 Marks**

Seat No.

--	--	--	--	--	--	--	--	--

- Instructions :**
- (1) All Questions are *compulsory*.
  - (2) Illustrate your answers with neat sketches wherever necessary.
  - (3) Figures to the right indicate full marks.
  - (4) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

**1. Attempt any FIVE :**

**20**

- (a) Write the process sequence flow chart for grey fabric processing. State the importance of grey inspection.
- (b) Write the objectives of Mercerisation of cotton.
- (c) Explain the concept of dyeing cotton with natural dyes.
- (d) What is perspiration fastness ? List the garments where it is required.
- (e) Differentiate between dyeing and printing.
- (f) Explain in brief the concept of Ink Jet Printing technique.
- (g) State the importance of evaluating the fastness properties of dyed and printed textiles.

**2. Attempt any TWO :****16**

- (a) What is the objective of scouring ? Explain the scouring process for grey cotton fabric with conditions and parameters.
- (b) With neat sketch describe the construction and working of Jigger dyeing machine, write its advantages and limitations.
- (c) Explain in detail various styles of printing with their advantages and limitations.

**3. Attempt any TWO :****16**

- (a) Write the objective of Bleaching process. Describe the Bleaching process for cotton fabric with hydrogen peroxide. Write the advantages of this process.
- (b) Describe the stepwise dyeing procedure for dyeing of polyester fabric on jet dyeing machine with disperse dyes.
- (c) Explain the printing paste ingredients with their properties and functions.

**4. Attempt any TWO :****16**

- (a) What is desizing ? Write the classification of desizing methods. Describe enzymatic desizing process for cotton fabric. Write its advantages and limitations also.
- (b) What are direct dyes ? Write its application procedure on cotton fabrics. Write its advantages and limitations also.
- (c) What are various speciality prints ? Explain the concept and application of one speciality print.

**5. Attempt any TWO :****16**

- (a) With neat outline sketch explain the working of gas singeing machine. Write its advantages and limitations.
- (b) With neat outline sketch explain the construction and working of flat bed printing machine. Write its advantages and limitation also.
- (c) Explain the methods for evaluating rubbing fastness of colored fabric. Also give the norms of rubbing fastness.

**6. Attempt any TWO :****16**

- (a) Explain the dyeing procedure for dyeing of cotton with reactive dyes by various methods.
  - (b) Describe the methods of printing with procedure for Tie & Dye and Batik printing.
  - (c) With neat sketch explain the construction and working of rotary printing machine. Write its advantages and limitations also.
-

