

17468

**11819**

**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) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

**1. Attempt any FIVE :**

**20**

- (a) List properties required for cotton fabric to be printed.
- (b) Write the advantages and limitations of Table printing process.
- (c) Compare roller printing machine and rotary screen printing machine.
- (d) Explain the mechanism of print fixation during steaming process.
- (e) Compare direct style of printing and resist style of printing.
- (f) Write the print paste formulation for pigment printing on cotton with process sequence.
- (g) Write the procedure for direct style of printing with acid dyes on silk fabric.

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

- (a) Classify thickeners with suitable examples. Write down the properties of an ideal thickeners.
- (b) Describe the construction and working of flat bed screen printing machine with it's advantages and limitations.
- (c) Explain the process of printing of cotton fabric with Reactive dyes. Write the advantages and limitation of reactive dyes for printing.

**3. Attempt any FOUR :****16**

- (a) Describe the print paste ingredient with their functions in printing process.
- (b) Explain the process of screen exposing for rotary printing machine.
- (c) Write the print paste formulation for direct style of printing with azoic colours.
- (d) Explain the principle of pigment printing and enlist print paste ingredient in it.
- (e) Write down the print paste formulation for direct style of printing on wool with basic dyes.
- (f) Differentiate dyes and pigments in printing.

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

- (a) State printing methods on textiles with merits and demerits.
- (b) Describe the construction and working of Rotary screen printing machine. Write it's advantages and limitations.
- (c) What are different methods used for fixation of prints on the fabrics ? Describe these methods with their advantages and limitations.

**5. Attempt any FOUR :****16**

- (a) Write down the advantages and limitations of thickeners used in textile printing.
- (b) Explain the selection criteria of thickeners for various dyes in textile printing.
- (c) Write any two problems arises during azoic colours printing and give their remedies.
- (d) Explain the procedure for Khadi printing on textiles.
- (e) Write advantages and limitations of pigment printing.
- (f) Write the procedure for direct style of printing on wool fabric with metal complex dyes.

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

- (a) Explain the classification of styles of printing with their application methods.
  - (b) Describe in detail the screen preparation process for flat bed printing machine.
  - (c) Write print paste formulations for direct style of printing and discharge style of printing with direct dyes on cotton fabric.
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