

17468

16172

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.

**Marks**

**1. Attempt any FIVE :**

**20**

- (a) Explain the importance of preparation of cotton fabric before printing.
- (b) Define batik printing. Which dyes are suitable for this printing ?
- (c) Classify thickeners with one example of each.
- (d) Write the general classification of methods and styles of printing.
- (e) Explain block printing with its merits and demerits.
- (f) Describe technical features of table printing.
- (g) Explain a method of screen preparation for flat bed printing machine.

**2. Attempt any TWO :**

**16**

- (a) State the ingredients of printing paste and explain their functions.
- (b) What are the methods of print fixation ? Explain the mechanism of print fixation during steaming.
- (c) With a typical print paste formulation explain printing of cotton with direct dye by direct style and discharge style of printing.

**3. Attempt any TWO :**

**16**

- (a) With a typical print paste formulation describe printing with azoic colours by direct style.

- (b) Explain the principle involved in pigment printing. Give the print paste ingredients with their specific functions.
- (c) How wool and silk fabrics are prepared for printing ? With print paste formulation give a method of printing woollen fabric using acid dye.

**4. Attempt any TWO : 16**

- (a) Describe flat bed printing w.r.t. technical features, types of squeezes, advantages and disadvantages.
- (b) Explain the process of screen exposing for rotary screen printing machine.
- (c) Explain chemistry of thickeners. State the advantages and limitations of thickeners.

**5. Attempt any TWO : 16**

- (a) Elaborate principle of discharge and resist style of printing. Explain the concept of "Tie and dye" method of printing.
- (b) With a line diagram explain the working principle by rotary screen printing machine. State the advantages and limitations of this machine.
- (c) Use a typical recipe and explain a method of Khadi printing and crimp style of printing.

**6. Attempt any TWO : 16**

- (a) Describe the discharge style of printing cotton with reactive dyes for obtaining white and colour discharge effect.
  - (b) What are pigments ? Give a typical print paste formulation for pigment printing. Also state the process sequence and conditions for pigment printing of cotton.
  - (c) (i) Write technical features and types of squeezes of rotary screen printing.  
(ii) Write down the print paste formulation and procedure for printing of silk using basic dyes by direct style.
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