

# 17468

15162

**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 of the following:** **20**
- a) State the objectives of printing. What is the importance of fabric preparation for printing?
  - b) State methods and styles of printing?
  - c) Write object of thickeners and classify them.
  - d) Write advantages and limitations of thickeners.
  - e) Give the technical features of table screen printing.
  - f) State and explain advantages and disadvantages of flat-bed printing.
  - g) State the methods of print fixation. Explain mechanism of print fixation during steaming.
- 2. Attempt any TWO of the following:** **16**
- a) With labelled diagram explain the working of star ager and rapid ager machines.
  - b) Describe procedure of screen preparation for flat bed printing m/c.
  - c) Explain the principles of:
    - (i) Discharge and
    - (ii) Resist style of printing in detail

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- 3. Attempt any TWO of the following: 16**
- a) Explain the process of screen exposing for rotary printing machine. Enlist the technical features of rotary screen printing.
  - b) With typical print paste formulation explain printing with reactive dye by direct style. Explain the specific function of each chemical used in the print paste.
  - c) What is discharging? Explain the selection criteria of dyes used in dyeing for discharge printing. Enlist the ingredients used in print paste formulation for discharge printing.
- 4. Attempt any TWO of the following: 16**
- a) (i) What are pigments? Explain the principle of pigment printing. 4
  - (ii) Write print paste formulation for pigment printing. 4
  - b) Explain:
    - (i) Khadi printing
    - (ii) Magic and Crimp style of printing.
  - c) With print paste formulation explain direct style of printing on wool fabric using acid dyes. Explain the specific functions of each chemicals used in the print paste.
- 5. Attempt any TWO of the following: 16**
- a) State the print paste ingredients for pigment printing on cotton. Explain in detail, the specific function of each ingredients.
  - b) With print paste formulation explain direct style of printing cotton fabric with azoic colours.
  - c) Draw and explain rotary screen printing. State advantages and disadvantages of this printing m/c.
- 6. Attempt any TWO of the following: 16**
- a) Describe selection criteria of thickeners for various dyes.
  - b) Explain block and batik printing methods with their advantages and disadvantages.
  - c) (i) What are the different types of squeezes used for flat bed and rotary screen printing?
  - (ii) Explain printing of silk fabric using basic dyes.
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