

22576

22223

3 Hours / 70 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 of the following:** **10**
- a) State the importance of pretreatments for printing point of view.
  - b) Define the term ‘Pigment’ and give two properties.
  - c) Explain the ‘Brasso’ and mention the pre-requisite to obtain brasso print.
  - d) List the print paste ingredients for printing acrylic fabrics.
  - e) List the dyes used for printing of nylon fibres.
  - f) Define ‘Transfer printing’.
  - g) Enlist the modern methods of textile printing.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Correlate the importance of bleaching in the preparation of 100% cotton poplin for printing purpose.
  - b) Elaborate and justify the single dye application on polyester/ cotton blend fabric printing.
  - c) Select a suitable formulation for printing of 100% acrylic fabrics using cationic dyes by direct style of printing.
  - d) Elaborate the characteristics features of disperse dye and ink used in transfer printing of textiles.
- 3. Attempt any THREE of the following:** **12**
- a) Identify the ingredients used in the printpaste formulation for polyester printing and state the function of each.
  - b) Elaborate a relevant print paste formulation for printing p/c with disperse vat combination and also state the procedure.
  - c) Explain the importance of scouring and bleaching in the fabric preparation for printing.
  - d) Demonstrate with justification the classification and types of nozzles used in printing.
- 4. Attempt any THREE of the following:** **12**
- a) Describe with flow chart the storage involved in the printing of polyester fabric by direct style.
  - b) Elaborate with suitable formulation the printing of polyester/ wool blended fabric using disperse-basic dyes.
  - c) Explain the resist style of printing nylon using disperse dyes with suitable formulation.
  - d) Describe the mechanism of printing textiles by film release transfer method with the help of a neat labelled diagram.
  - e) Elaborate the technical features and advantages of drop on demand inkjet printing.

**5. Attempt any TWO of the following:****12**

- a) Differentiate the selection criteria of various thickness used for printing of polyester by different styles of printing.
- b) Compute the formulation of pigment printing for plc blended fabric. Also mention the function of each ingredient along with fixation process parameters.
- c) Select the discharge style of printing of nylon with direct style of various parameters including formulation.

**6. Attempt any TWO of the following:****12**

- a) Demonstrate with proper flow chart the print paste formulation and fixation parameters for printing of acrylic to develop discharge style using dispense dyes.
  - b) Compare the various important parameters of continuous transfer printing machine and vacuum transfer printing machine.
  - c) Differentiate the technical parameters, production capacity, advantages and limitations of conventional printing and ink jet printing.
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