

# 17565

**21819**

**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. Answer any FIVE of the following: 20**
- What is the importance of preparation of polyester fabric before printing?
  - What is discharging? List out any four discharging agents.
  - Explain the selection criteria of binders for pigment printing.
  - State the concept of inkjet printing.
  - Give the classification of inkjet printing.
  - State the advantages and disadvantages of transfer printing.
  - Explain the mechanism of transfer printing.
- 2. Answer any TWO of the following: 16**
- With typical formulation describe discharge printing of polyester.
  - What are pigments? With typical printing paste recipe explain pigments printing of p/c blends.
  - List out names of different dyes used for nylon printing. Describe printing of nylon with metal complex dyes by direct style.

P.T.O.

- 3. Answer any TWO of the following:** **16**
- a) With a neat labeled diagram explain working of vapour phase transfer printing machine.
  - b) What are natural dyes? State the advantages and disadvantages of natural dyes in printing.
  - c) Describe printing of acrylic fabric in detail.
- 4. Answer any TWO of the following:** **16**
- a) What is resist printing? Explain resist printing on polyester in detail.
  - b) Describe the use of various thickeners for printing on polyester.
  - c) Explain Brasso style of printing with its principle.
- 5. Answer any TWO of the following:** **16**
- a) Explain the selection criteria of paper ink and disperse dyes for transfer printing.
  - b) Describe discharge and resist style of printing on nylon fabric.
  - c) With a typical print paste formulation explain printing of P/C blended fabrics with disperse/vat system.
- 6. Answer any TWO of the following:** **16**
- a) State various print fixation methods of polyester printing. Explain the mechanism of print fixation process (any one).
  - b) (i) Comment on after treatments of polyester printed fabrics.  
(ii) What is the criteria of dye selection for printing of acrylic fabric.
  - c) (i) Comment on machineries used for printing paper for transfer printing.  
(ii) State the concept of carpet printing.
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