

# 17565

**11920**

**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.
- (6) 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) What are thickeners? Explain the role of thickener in printing.
- b) Explain selection criteria of dyes for polyester printing.
- c) Which thickeners are used for polyester printing? Why?
- d) Explaining the role of binders in pigment printing give its selection criteria.
- e) State different styles of printing polyester. Name any one discharging agent used for discharge printing of polyester.
- f) Explain the concept of transfer printing.
- g) What are the advantages and disadvantages of transfer printing.

P.T.O.

- 2. Attempt any TWO of the following:** **16**
- a) Describe a method of single dye application on blended fabric.
  - b) What are the methods of transfer printing? Explain mechanism of transfer printing.
  - c) Describe printing of acrylic fabric in details.
- 3. Attempt any TWO of the following:** **16**
- a) Classify inkjet printing and explain the concept of inkjet printing.
  - b) Describe printing with natural dyes and state its advantages and disadvantages.
  - c) State different dyes used for nylon printing. Describe direct style of printing nylon with metal complex dyes.
- 4. Attempt any TWO of the following:** **16**
- a) What do you understand by the terms discharge and resist printing? Explain a method of printing nylon by discharge style.
  - b) State various discharging and resisting agents. Describe resist style of printing on polyester.
  - c) State various print fixation methods on polyester fabric. Explain any one method in detail.

**5. Attempt any TWO of the following:****16**

- a) Describe with typical print paste formulation printing of p/c blended fabrics with disperse/reactive system.
- b) Explain the selection criteria of paper, ink and disperse dyes for transfer printing.
- c) State and explain faults, their prevention and correction in printing with natural dyes.

**6. Attempt any TWO of the following:****16**

- a) Explain mechanism of print fixation on polyester. Comment on after treatments of printed polyester goods.
  - b) Describe brasso style of printing with its principles involved in it and typical print paste formulation.
  - c) (i) Give selection criteria of dyes for printing of acrylics.  
(ii) List out the machineries used for printing paper for transfer printing.
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