

# 22576

**21222**

**3 Hours / 70 Marks**

Seat No.

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15 minutes extra for each hour

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- Instructions* – (1) All Questions are *Compulsory*.
- (2) Answer each next main Question on a new page.
- (3) Illustrate your answer 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: **10****
- a) Draw the process flow chart for pretreatment of fabric to be printed.
- b) List the printing paste ingredients for P/C blends using Disperse/ reactive system.
- c) List the name and Chemical structure of discharging agents used in polyester blend printing.
- d) List the print fixation methods used in Acrylic printing.
- e) Write the process flow chart for Nylon fabrics to be printed.
- f) List the types of transfer printing.
- g) Give classification of digital printing techniques.

P.T.O.

- 2. Attempt any THREE of the following: 12**
- a) Describe the print paste formulation for direct style of printing of polyester, also mention the fixation method adopted and its advantages.
  - b) Describe the selection criteria of disperse dye for P/C blends.
  - c) Explain the process of acrylic fabric printing with disperse dye.
  - d) Describe the resist style of printing of Nylon dye.
- 3. Attempt any THREE of the following: 12**
- a) Explain the selection criteria of thickeners based on fixation methods.
  - b) Describe two phase method of printing with Disperse/Reactive system for P/C blend.
  - c) Explain thermo fixation method for print fixation of acrylic fabric.
  - d) Describe the process of printing of Nylon fabric with Acid dye.
- 4. Attempt any THREE of the following: 12**
- a) Describe the discharge style of printing for polyester.
  - b) Explain the printing process of poly/wool blended fabrics.
  - c) Describe the selection criteria of dyes for acrylic fabric to be printed.
  - d) Describe the discharge style of printing with Metal complex dye for Nylon fabric
  - e) Write the characteristics of Transfer printing paper.

- 5. Attempt any TWO of the following:** **12**
- a) Suggest the machinery setup for high temperature fixation of printed polyester fabric.
  - b) Suggest suitable transfer printing machinery for printing of transfer paper with its printing procedure.
  - c) Differentiate between Conventional printing and digital printing on the basis of
    - i) Performance quality.
    - ii) Production rate.
- 6. Attempt any TWO of the following:** **12**
- a) Suggest the suitable dye system for printing of P/C blended fabric by explaining the printing process.
  - b) Use ink-jet print technology for printing of 8 colored furnishing fabric. Explain the working process.
  - c) Elaborate working of flatbed transfer printing machine with neat sketch.
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