

17565

16172

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 :

20

- (a) Describe the selection criteria of dyes for printing of polyester fabric.
- (b) Describe the process of discharge printing on polyester fabric.
- (c) Comment on the 'Brasso' style of printing for the blended fabrics.
- (d) Explain various fixation methods for acrylic printed fabric.
- (e) Comment on preparation of Nylon fabric for printing.
- (f) Write the advantages and limitations of transfer printing.
- (g) Write in brief, the concept – carpet printing.

2. Attempt any TWO :**16**

- (a) With recipe, describe the printing of polyester fabric with disperse dyes by direct style of printing. Enlist on process control parameters for the same.
- (b) Write the recipe for printing the polyester/wool blended fabric by direct style. Explain in detail, the process of printing this blend.
- (c) Which machineries are used for printing the paper used for transfer printing ? Explain the process of printing.

3. Attempt any TWO :**16**

- (a) Describe the printing of polyester by resist style. Comment on selection of dyes and process control parameters.
- (b) Describe the printing of polyester/cotton blend with pigments. Write about the selection criteria of binders.
- (c) Explain the concept of Ink-Jet printing. Explain about the various class of inks used with their advantages and limitations. (two each)

4. Attempt any TWO :**16**

- (a) Describe in detail various methods of print fixation and their mechanism for polyester printed fabrics.
- (b) Explain the selection criteria of dyes and chemicals used for discharge and resist style of printing for Nylon fabric.
- (c) Write the selection criteria of paper, ink and disperse dyes for transfer printing.

5. Attempt any TWO :**16**

- (a) Describe the role of various thickeners used for polyester printing. Write their properties, advantages and limitations.
- (b) Explain the selection criteria of dyes for acrylic printing. Describe the direct style of printing of acrylic fabric.
- (c) Explain in detail the methods of transfer printing with their process sequence. Write the precautions and importance of these methods.

6. Attempt any TWO :**16**

- (a) Describe the printing of polyester/cotton blend fabric with disperse/reactive system. Comment on selection of dyes and chemicals to process this blend.
 - (b) Describe in detail the printing process of Nylon with Acid dyes. Explain the process control parameters for printing and after treatments.
 - (c) What are Natural dyes ? Write their four advantages and four limitations from textile printing view points. Write any two faults and their remedies of Natural dyes printing.
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