

17565

16117

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

- Write down two physical and two chemical properties of polyester.
- Explain the concept of Brasso style of printing.
- Describe the single dye application method for printing blended fabric with suitable example.
- Explain the selection criteria of dyes for acrylic printing.
- State the different dyes used for nylon printing.
- Explain the mechanism of transfer printing.
- Write down the selection criteria of dyes for transfer printing.

2. Attempt any TWO :

16

- Describe in detail the discharge style of printing for polyester by using typical print paste formulation.
- Describe in detail the printing of polyester/cotton blend fabric with disperse/vat system.
- Explain the method of transfer printing with its process sequence, advantages and disadvantages.

3. Attempt any FOUR : 16

- (a) Explain Resist style of printing on polyester fabric.
- (b) Describe the process of printing polyester/cotton blend with pigments.
- (c) Describe the direct style of printing on acrylic fabric with disperse dyes.
- (d) Write down the procedure for discharge printing on Nylon fabric.
- (e) State various machineries used for transfer printing. Explain any one of them with diagram.
- (f) Describe the printing process with natural dyes on textiles.

4. Attempt any FOUR : 16

- (a) Write down about preparation of polyester fabric for printing and enlist the names of thickeners for polyester printing.
- (b) What is the function of binder in pigment printing ? Write down the criteria for selection of binder in printing.
- (c) Write down the procedure for printing of Nylon with disperse dyes.
- (d) State the concept of Inkjet printing and Carpet printing.
- (e) Write down the advantages and disadvantages of Natural dyes for printing.
- (f) Give the classification of Inkjet printing.

5. Attempt any TWO : 16

- (a) Describe in detail the direct style of printing on 100% polyester fabric with disperse dyes and pigments.
- (b) State various print fixation methods for polyester fabric. Explain any one method with proper conditions and precautions for ideal results.
- (c) Describe in detail printing of Nylon with acid dyes followed by fixation methods and after treatments.

6. Attempt any FOUR :**16**

- (a) What is the significance of sublimation fastness of disperse dyes in polyester printing ?
 - (b) Write down the print paste formulations for polyester/wool and polyester/acrylic blends using suitable dye combination system.
 - (c) Explain the discharge style of printing for Acrylic fabric.
 - (d) Write down the selection criteria of paper and ink for transfer printing.
 - (e) Describe the inkjet printing process with stages involved in it.
 - (f) Write down advantages and limitations of Inkjet printing over conventional printing.
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