

17565

21718

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 TEN :

20

- (a) Give the classification of ink-jet printing techniques.
- (b) Enlist the thickeners used in the printing of polyester.
- (c) Give the printing recipe for the printing of p/c blended fabric with pigments.
- (d) Name the machines used for the printing of textiles by transfer method.
- (e) Write the printing recipe for the printing of nylon with acid dyes.
- (f) List the various discharging chemicals used in the printing of polyester.
- (g) Mention some of the natural dyes used for the printing of textiles.
- (h) What is the selection criteria of binders for the printing of polyester blended fabrics ?
- (i) Write the various methods of transfer printing.
- (j) What is the significance of after treatments in polyester printing ?
- (k) What are the various after treatments used for Nylon printing ?

- (l) What is the significance of various fixation methods of polyester printed fabric ?
- (m) What are the methods of fixation for fixing of dyes on acrylic fibres ?
- (n) What are the limitations of transfer printing ?

2. Attempt any FOUR :**16**

- (a) Explain the various types of after treatments given to polyester after printing.
- (b) Explain with recipe, the printing of polyester-acrylic blended fabric.
- (c) Explain the selection criteria of dyes for printing of acrylic fabrics.
- (d) Explain the print fixation methods used for polyester printing.
- (e) Explain the printing of polyester-wool blended fabric.
- (f) Describe the “Brasso” style of printing of polyester-cotton blended fabric.

3. Attempt any FOUR :**16**

- (a) Describe the process of resist style printing on polyester fabric.
- (b) Describe the printing of polyester-cotton blended fabric with disperse-reactive dye system.
- (c) Describe the selection criteria of dyes for printing of polyester.
- (d) Explain the selection criteria of binders used for the pigment printing of polyester.
- (e) Explain the method of single dye printing of cotton-polyester blended fabric.
- (f) Describe the different discharging and resisting agents used in polyester printing.

4. Attempt any FOUR :**16**

- (a) Explain the mechanism of print fixation in polyester printing.
- (b) Explain the fixation methods and after treatments used for acrylic printing.
- (c) Describe the direct style of printing of Nylon fabrics.
- (d) Explain the method of printing of polyester by discharge style.
- (e) Explain the mechanism of transfer printing.
- (f) Explain the concept of Ink-jet printing on printing of textiles.

5. Attempt any FOUR :**16**

- (a) Explain the method of Nylon printing by discharge style.
- (b) Describe the process of printing of textiles with natural dyes.
- (c) Explain the role of various thickeners used for printing of polyester.
- (d) Explain the advantages and limitations of printing with natural dyes.
- (e) Describe the printing of Nylon with metal complex dyes.
- (f) Explain the advantages and limitations of transfer printing.

6. Attempt any FOUR :**16**

- (a) Write a detailed note on carpet printing.
- (b) What are the functions of the chemicals and auxillaries used in printing of polyester ?

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17565

[4 of 4]

- (c) What are the machines used for printing paper for transfer printing ? Describe these machines.
 - (d) Describe the faults and their correction and prevention during the printing of textiles with natural dyes.
 - (e) Explain the process of selection of Disperse dyes for transfer printing.
 - (f) Explain the machines used for printing of textiles by transfer printing method.
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