

17565

15116

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) Use of Non-Programmable Electronic Pocket Calculator is permissible.
  - (7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

**1. Attempt any FIVE :**

**20**

- (a) Enlist the thickeners that can be used for the printing of polyester fabric.
- (b) Write down the recipe for printing of polyester using disperse dyes by direct method.
- (c) Write a note on the fixation of disperse dyes on polyester.
- (d) Write a note on the selection of dyes for printing of acrylic fibres.
- (e) Explain the preparation of nylon fabrics w.r.t. printing.
- (f) Explain the mechanism of transfer printing.
- (g) Explain the importance of printing of textiles using natural dyes.

**2. Attempt any FOUR :**

**16**

- (a) What are the pre-requisites of polyester fabric to be suitable for printing purpose ?
- (b) Write the procedure and recipe of printing p/c blended fabrics using disperse reactive system by direct method.
- (c) Write a note on the fixation methods of printed acrylic fabrics.
- (d) Give the recipe and procedure of printing nylon with acid dyes by adopting direct style of printing.
- (e) Enlist the advantages and limitations of transfer printing. (four each)
- (f) What is 'Ink-Jet Printing' ? Explain.

**P.T.O.**

- 3. Attempt any FOUR : 16**
- (a) Write a note on the single dye application on blended fabric.
  - (b) Write down the essential properties of a thickener to be used for printing.
  - (c) Explain the mechanism of print fixation of polyester using disperse dyes.
  - (d) Write a note on the discharge style of printing of acrylic fibres.
  - (e) Write down the recipe and procedure of printing of nylon using metal complex dyes by direct method.
  - (f) Enlist the methods of transfer printing. Write the process sequence of the same.
- 4. Attempt any FOUR : 16**
- (a) Explain the various print fixation methods of polyester printed fabrics.
  - (b) Write a note on the selection of colouring matter for printing of polyester.
  - (c) Write the recipe and procedure for printing p/w blended fabric by direct style.
  - (d) Elaborate on the machineries used for printing paper meant for transfer printing.
  - (e) What are the different types of inkjet printing ? Explain in brief.
  - (f) Write a note on the machineries used for transfer printing.
- 5. Attempt any TWO : 16**
- (a) Write a note on the discharge style of printing of polyester. Enlist and explain the various discharging agents used. Also comment on the after treatments.
  - (b) Write a note on the printing of p/c blends with pigments. Also explain the selection criteria of binders.
  - (c) Explain the resist and discharge of printing of nylon. Comment on the fixation methods of both the styles of printing.
- 6. Attempt any TWO : 16**
- (a) Write a note on the resist style of printing of polyester. Enlist and explain the various resisting agents used. Also comment on the after treatments of the same.
  - (b) Write a note on the selection criteria of paper, ink and disperse dyes for transfer printing of textiles.
  - (c) What are the advantages and limitations of printing of textiles with natural dyes ? Enlist any four printing faults and their prevention and corrections.
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