

314356

24225

3 Hours / 70 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Illustrate your answers with neat sketches wherever necessary.
 - (3) Figures to the right indicate full marks.
 - (4) Assume suitable data, if necessary.

Marks

1. Attempt any FIVE of the following :

10

- (a) State the importance of heat-setting of polyester before printing.
- (b) List out combination of dye systems used for printing PET/Cotton blended fabric.
- (c) State the principle of “Brasso” style of printing.
- (d) List out different methods of print fixation on acrylic fabric.
- (e) Enlist different types of transfer printing.
- (f) Classify inkjet printing techniques.
- (g) State two major advantages of transfer printing.

2. Attempt any THREE of the following :

12

- (a) Explain the importance of fabric preparation before printing in brief.
- (b) Demonstrate the procedure for single dye application on PET/Cotton blended fabric.
- (c) Explain the selection criteria of dyes for acrylic based on print fixation method.
- (d) Enlist the essential characteristics of a paper used in transfer printing.



- 3. Attempt any THREE of the following : 12**
- (a) Explain the print fixation mechanism during pressure steaming of polyester.
 - (b) Explain the mechanism of Brasso style of printing on PET/Cotton blended fabric. Mention names of suitable chemicals for Brasso printing.
 - (c) Describe direct style of printing on acrylic fabric with typical formulation.
 - (d) Illustrate, Flexographic transfer paper printing technique with neat sketch.
- 4. Attempt any THREE of the following : 12**
- (a) Explain direct style of printing on polyester with suitable formulation for atmospheric steaming fixation method.
 - (b) Explain the principle and selection criteria of polyester/cellulosic blend composition for carbonized prints.
 - (c) Elaborate technical features of continuous fabric transfer printing machine.
 - (d) Illustrate, Drop on demand inkjet printing with a neat sketch.
 - (e) Describe the characteristics of inks for digital printing.
- 5. Attempt any TWO of the following : 12**
- (a) Enlist the ingredients of printing paste formulation for discharge printing on polyester and state the precautions taken during discharge printing.
 - (b) With a typical print paste formulation describe the process of pigment printing on PET/Cotton blend and explain the mechanism of pigment print fixation.
 - (c) Describe the procedure to develop the prints by direct style using acid dyes on nylon fabric.
- 6. Attempt any TWO of the following : 12**
- (a) Illustrate the working of vapour phase transfer printing with neat labelled diagram.
 - (b) Compare inkjet printing with conventional printing on any six points.
 - (c) (i) Enlist the print paste ingredients with their role for printing of PET/Cotton blend with disperse/reactive dye system.
(ii) State the print paste ingredients with their role for nylon printing with metal complex dye.
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