

22576

11920

3 Hours / 70 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) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

- 1. Attempt any FIVE of the following: **10****
- a) State the objects of scouring of nylon.
 - b) State the advantages and limitations of two phase method for printing P/C blended fabric using disperse reactive system.
 - c) Write the process sequence for printing nylon fabric using acid dyes.
 - d) Enlist the print paste ingredients for printing acrylic fabric.
 - e) State the selection criteria of thickeners based on print fixation method for printing on PET.
 - f) State the concept of transfer printing. Enlist various machines used for printing the paper.
 - g) State the characteristics of ink used in inkjet printing.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Explain direct style of printing on PET using suitable formulation and fixation by pressure steaming method.
 - b) Explain single phase method of printing P/C blended fabric using disperse reactive system.
 - c) Describe with neat sketch, vacuum transfer printing machine.
 - d) Explain the mechanism of print fixation during atmospheric steaming and thermofixation on PET.
- 3. Attempt any THREE of the following:** **12**
- a) Describe discharge style of printing of acrylic with suitable formulation and using suitable dyes.
 - b) Describe disperse-vat dye application by printing on p/c blended fabric with suitable formulation.
 - c) Describe the procedure for direct style of printing on Nylon using acid dyes.
 - d) Explain discharge style of printing on PET by using suitable formulation and dye class.
- 4. Attempt any THREE of the following:** **12**
- a) Describe printing on acrylic fabric by direct style with suitable formulation using disperse dyes.
 - b) With suitable formulations and reactions, explain brasso printing on P/C blended fabric.
 - c) Describe with neat sketch, continuous inkjet printing.
 - d) Explain printing of polyester/acrylic blended fabric using disperse-basic dye system.
 - e) Classify inkjet printing technology. Explain the concept of binary deflection inkjet printing.

- 5. Attempt any TWO of the following:** **12**
- a) Demonstrate pigment printing on P/C blended fabric using suitable formulation. State the advantages of pigment printing.
 - b) With neat sketch, explain working of Lithographic printing technique for printing the paper.
 - c) Outline direct style of printing on Nylon using disperse dyes and metal complex dyes with suitable formulation.
- 6. Attempt any TWO of the following:** **12**
- a) Illustrate the resist style of printing on PET by chelation method with suitable formulation and reaction.
 - b) Relate the characteristics of paper, dye and ink used for transfer printing.
 - c) Differentiate the advantages and limitations of inkjet printing over conventional printing.
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