

22576

23242

3 Hours / 70 Marks

Seat No.

--	--	--	--	--	--	--	--

- 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) 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) Write the process flow chart for pretreatments of polyester fabric being printed.
 - b) List the names of print fixation methods for polyester fabric.
 - c) State the role of binder in pigment printing of P/C blended fabric.
 - d) List the print paste ingredients for printing with acid dye on nylon fabric.
 - e) Give the characteristics of paper used for transfer printing.
 - f) Give the types of transfer printing methods.
 - g) Write types of nozzle used in ink-jet printing.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Describe the selection criteria of dyes for polyester printing.
 - b) Describe the process for printing of P/C blend by disperse - reactive system by two phase method.
 - c) Write the print paste formulation for polyester / wool blend also write the process sequence.
 - d) Describe the process for printing of Nylon fabric by direct style of printing using metal complex dye.
- 3. Attempt any THREE of the following:** **12**
- a) Explain the importance of reduction clearing treatment. Mention the chemicals used for reduction clearing.
 - b) Explain the advantages and limitations of single dye system for P/C blend.
 - c) Explain the process conditions for various print fixation methods for Acrylic.
 - d) State the limitations of Disperse dye printing process on nylon fabric. Mention the print paste formulation for the same.
- 4. Attempt any THREE of the following:** **12**
- a) Write the selection criteria of thickener for polyester printing with disperse dyes.
 - b) Describe the process of Brasso style printing for polyester / cotton blended fabric with its principle.
 - c) Explain the mechanism of vapour/heat transfer printing.
 - d) Draw neat labelled sketch of Gravure printing for paper and explain the process.
 - e) Write the basic characteristics of ink used for inkjet printing.

5. Attempt any TWO of the following:**12**

- a) “Disperse - vat system is commonly used for printing of polyester Cotton blended fabric”. Justify the statement and explain process of disperse - vat printing.
- b) Explain the process for printing of Acrylic fabric with disperse dye. State limitations of the process.
- c) Write technical features of continuous transfer printing. Explain the process with neat labelled sketch.

6. Attempt any TWO of the following:**12**

- a) Describe the process for discharge style of printing for polyester fabric.
 - b) Describe the process of Nylon printing with metal complex dye. State advantages of the process.
 - c) Ink jet printing is computerised printing. Justify the statement by emphasizing on basic features of ink jet printing.
-