

22576

23124

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) 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) State the importance of –
- i) Scouring and
- ii) Bleaching in polyester fabric preparation before printing.
- b) State the various stages involved in printing of polyester.
- c) State the various dye combinations used for printing of polyester / cotton blended fabric.
- d) Write the advantages and limitations of disperse - reactive system for printing of polyester / cotton blend.
- e) Enlist the print paste ingredients with their functions for printing of acrylic fabric.
- f) Enlist the various methods of transfer printing.
- g) Give classification of inkjet printing.

P.T.O.

- 2. Attempt any THREE of the following :** **12**
- a) Explain the print fixation mechanism during thermo fixation for polyester.
 - b) Explain the principles and mechanism of brasso style of printing on polyester / cotton blended fabric.
 - c) Explain the characteristics of paper used for transfer printing.
 - d) Select relevant ingredients of print paste formulation for printing on polyester by direct style using atmospheric steaming fixation method.
- 3. Attempt any THREE of the following :** **12**
- a) Explain direct style of printing on acrylic fabric with typical print paste formulation for pressure steaming method.
 - b) Use relevant ingredients for print paste formulation for printing on polyester / wool blend with justification.
 - c) Select the relevant print paste ingredients and procedure for direct style of printing on nylon using disperse dyes.
 - d) Select relevant ingredients of print paste and procedure for resist style of printing on polyester by alkali method.
- 4. Attempt any THREE of the following :** **12**
- a) Describe the procedure to develop discharge printing effect on polyester fabric.
 - b) State and explain, the advantages and limitations of disperse - vat system for printing of polyester / cotton blend.
 - c) Select relevant print paste formulation and procedure to print acrylic fabric using disperse dye by atmospheric steaming method.
 - d) Select the relevant procedure to apply single dye on polyester/ cotton blended fabric by printing.
 - e) Describe with neat sketch, drop on demand inkjet printing.

- 5. Attempt any TWO of the following :** **12**
- a) Describe printing on nylon fabric by discharge style using acid dye with suitable print paste formulation.
 - b) Select relevant print paste formulation and procedure for printing on PLC blended fabric using pigment colours.
 - c) With neat sketch, describe continuous transfer printing machine with its advantages and limitations.
- 6. Attempt any TWO of the following :** **12**
- a) Compare advantages and limitations of conventional and digital printing.
 - b) With relevant process parameters and procedure justify the statement that “acid dyes gives bright shades on nylon”
 - c) Justify the statement “vacuumtransfer printing machine” is used for transfer printing.
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