

22576

24225

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 objective of heat-setting.
 - b) List out various stages involved in printing.
 - c) State the different dye combinations or systems used for printing PET/Cotton blend.
 - d) State the principle of “Brasso” printing.
 - e) Name different class of dyes used for printing of nylon.
 - f) List out different print fixation methods of acrylic.
 - g) Enlist different types of transfer printing.

P.T.O.

- 2. Attempt any THREE of the following :** **12**
- a) Suggest the typical print paste ingredients for polyester printing by atmospheric steaming.
 - b) Explain the process of printing PET/cotton blend with disperse – reactive system by single phase method.
 - c) With typical print paste formulation describe printing of acrylic by direct style using disperse dye.
 - d) Select relevant print paste ingredients to print nylon fabric by direct style using acid dye - with Justification.
- 3. Attempt any THREE of the following :** **12**
- a) Enlist different four techniques / methods of disperse dye print fixation on polyester and explain the print fixation mechanism during HTHP condition.
 - b) With suitable reactions explain the mechanism of brasso style of printing on PET/cotton blended fabric.
 - c) Enlist the characteristics of transfer printing paper and transfer printing ink.
 - d) Classify inkjet printing and explain its concept.
- 4. Attempt any THREE of the following :** **12**
- a) State and explain the selection criteria of disperse dyes based on print fixation method.
 - b) Describe the process of single dye application on PET/cotton blended fabric.
 - c) Describe the process of printing nylon using metal complex dye by direct style.
 - d) With a neat sketch, describe the Flexographic printing technique.
 - e) Describe drop on demand inkjet printing with neat sketch.

5. Attempt any TWO of the following : 12

- a) Select relevant ingredients for printing of the given polyester fabric by discharge style with justification.
- b) With suitable print paste formulation describe printing of polyester / wool blended fabric using disperse / acid dyes.
- c) Suggest the relevant procedure to develop white and colour discharge effect on acrylic fabric.

6. Attempt any TWO of the following : 12

- a) Give comparison between inkjet printing and conventional printing on any six points.
 - b) With suitable print paste formulation describe discharge printing on nylon using disperse dye. Also state the precautions taken during discharge printing.
 - c) Illustrate with schematic diagram, working of continuous transfer printing machine.
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