

22459

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 objectives of Printing of Textiles.
 - b) Classify styles of Printing.
 - c) Draw diagram of a Printing table.
 - d) State types and sizes of squeegees used in flat-bed printing.
 - e) Enlist the names of machines used for fixation of prints.
 - f) List out different methods of print fixation.
 - g) Name the different types of dyes used for printing of wool and silk.

P.T.O.

- 2. Attempt any THREE of the following :** **12**
- a) Differentiate between dyeing and printing.
 - b) Explain the process of batik printing with its advantages and limitations.
 - c) Explain procedure for preparation of screen for Flat-bed printing.
 - d) With a neat diagram explain the working of star ager.
- 3. Attempt any THREE of the following :** **12**
- a) Enlist various stages involved in printing and elaborate the importance of fabric preparation before printing.
 - b) Explain the principle of discharge style of printing with process stages.
 - c) Explain the technical features of flat bed printing machine.
 - d) Enlist the ingredients of print paste for direct style of printing with direct dye and write their specific function.
- 4. Attempt any THREE of the following :** **12**
- a) With typical print paste formulation describe printing of cotton using reactive dye by direct style.
 - b) Draw a neat labeled diagram of rapid ager and explain its working with its advantages and limitations.
 - c) Explain the principle and mechanism of pigment printing on Textiles.
 - d) With typical print paste recipe describe pigment printing process with its advantages and disadvantage.
 - e) Justify the statement - "Wool scouring is a process of emulsification" not a saponification.

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

- a) Justify the selection criteria of thickeners for various dyes used in printing.
- b) Select relevant process for producing white discharge and colour discharge printing effect on reactive dyed ground.
- c) With schematic illustration explain the working of rotary screen printing with its advantages and limitations.

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

- a) Select the screen mesh for printing of fine design by using Flat bed printing machine. Also explain the working of the machine.
 - b) Select the relevant print paste formulation for producing a special "Khadi" printing effect on Cotton Fabric.
 - c) Choose the print paste formulation for printing with basic dyes by direct style on wool fabric and justify the role of each ingredient used in the print paste.
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