

17468

21415

3 Hours / 100 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) Use of Non-programmable Electronic Pocket Calculator is permissible.
(7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. **Attempt any FIVE of the following:** **20**
- Write a detailed note on the preparation of cotton fabric from printing point of view.
 - Give a detailed classification of thickness with one example each.
 - Compare between dyeing and printing.
 - Enlist and explain the distinct steps involved in preparation of rotary screens.
 - Explain the mechanism of print fixation during steaming on a ager.

P.T.O.

- f) With a neat labelled diagram, explain star ager.
- g) Give the recipe and procedure of printing silk using acid dyes by direct style.

2. Attempt any TWO of the following: 16

- a) Explain the concept of 'Tie and dye' method and 'Batik' method of printing with one example each.
- b) Write a note on the different types of squeezees used in Flat-bed screen printing and Rotary Screen printing.
- c) Write a detailed note on the various methods of print fixation including curing treatments.

3. Attempt any TWO of the following: 16

- a) Enlist and explain the function of ingredients used in printing of textiles.
- b) Give the recipe and procedure for Khadi Printing and Crimp style of printing.
- c) Give the process sequence and print paste formulation for printing of wool using:
 - (i) metal complex dyes and
 - (ii) basic dyes

4. Attempt any TWO of the following: 16

- a) Write a note on the selection criteria of thickness for various classes of dyes.
- b) With a neat labelled diagram, explain the working principle of flat bed screen printing machine.
- c) Write down the recipe and procedure for discharge style of printing using direct dyes. Also comment on the fixation of prints.

5. Attempt any TWO of the following:**16**

- a) Explain the principles involved in different styles of printing in detail.
- b) What is Rotary Screen printing? With a neat labelled diagram, explain its technical features.
- c) Explain the printing of cotton using azoic colours in detail. Also comment on the fastness properties.

6. Attempt any TWO of the following:**16**

- a) What are Pigment? Enlist and explain the function of print paste ingredients? Give the process sequence and conditions for pigment printing of cotton.
 - b) Describe the resist style of printing of cotton with reactive dyes for obtaining:
 - (i) White resist
 - (ii) Coloured resist
 - c) Give four advantages and four limitations of flat bed screen printing and rotary screen printing machine.
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