

17468

14115

3 Hours / 100 Marks

Seat No.

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

- Instructions :** (1) All Questions are *compulsory*.
(2) Answer each next main Question on a new page.
(3) Figures to the right indicate full marks.
(4) Assume suitable data, if necessary.

Marks

1. Answer any TEN :

10 × 2 = 20

- Enlist any four functions of thickeners.
- Explain the rheological behaviour of thickeners.
- Define the term 'Printing'.
- Explain the tie and dye method of colouration of textiles.
- What is block method of printing ?
- Explain the term mesh number.
- Enlist the different types of rotary screens used for printing of textiles.
- Write technical features of table printing.
- Which material is used for preparing flat bed screens ? What is the fabric called ?
- Enlist the different methods of print fixation.
- Which are the chemicals in print paste formulation facilitating the fixation of colours ?
- What are the different mechanisms of print fixation ?
- Write the recipe of Khadi printing.
- Define pigments. How do they differ from dyes ?
- How are pigments held on the fabric after the printing ?



P.T.O.

2. Answer any FOUR :**4 × 4 = 16**

- (a) Justify the importance of pretreatments from printing point of view.
- (b) Draw a neat labelled diagram of a flat bed screen printing machine.
- (c) With a neat diagram, explain the different types of squeeze used in rotary screen printing machine.
- (d) Describe a method of fixation of prints.
- (e) Enlist and explain the distinct steps involved in the pigment printing of cotton.
- (f) Write down the print paste formulation and procedure for printing of wool using acid dyes by direct style.

3. Answer any FOUR :**4 × 4 = 16**

- (a) Enlist the ingredients of a printing paste. Also mention the function of any four ingredients.
- (b) Explain the batik printing process.
- (c) Write down any two advantages and limitations of different squeezes used in rotary screen printing machine.
- (d) Write the recipe and the procedure of printing direct dyes in cotton using discharge style of printing.
- (e) Explain the principle and write down the recipe and procedure of crimp style of printing.
- (f) Describe preparation of wool fabric from printing point of view.

4. Answer any FOUR :**4 × 4 = 16**

- (a) Write down the classification of thickeners.
- (b) Name different methods of printing. Explain any one.
- (c) Write down the technical features of rotary screen printing machine.
- (d) What is magic printing ? Write its principle.
- (e) Write down print paste formulation for direct style of printing using azoic dye.
- (f) Name different types of binders and thickeners used in pigment printing.

5. Answer any FOUR :**4 × 4 = 16**

- (a) Explain the principles involved in different styles of printing.
- (b) Explain the screen preparation procedure in case of flat bed screens.
- (c) Write down the recipe and the procedure for printing of cotton using reactive dyes by direct style.
- (d) Describe printing of cotton using azoic colours.
- (e) Write down the print paste recipe and procedure for pigments printing.
- (f) How is silk fabric printed with basic dyes by direct method ? Write its recipe and procedure.

6. Answer any TWO :**2 × 8 = 16**

- (a) Explain selection criteria of thickeners for various dyes.
 - (b) Write the process sequence and the screen exposing procedure for preparation of design on rotary screens.
 - (c) Draw a neat labelled diagram of a star ager and rapid ager and mention the conditions employed for fixation of prints.
-

