

17468

16117

3 Hours / 100 Marks

Seat No.

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

- 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.

Marks

1. **Answer any FIVE of the following:** **20**
- State the objective of printing. How does it differ from dyeing? Explain.
 - Explain the importance of pretreatment for fabric printing.
 - Explain various methods and state various styles of printing.
 - What is batik printing?
 - Give the technical features of table printing?
 - What are different methods of print fixation?
 - Explain mechanism of print fixation during steaming.
2. **Answer any TWO of the following:** **16**
- With a typical print paste formulation explain printing of cotton with direct dye by direct and discharge style of printing.
 - Give the procedure of screen preparation for flat bed printing machine.
 - What is the principle of pigment printing? State the ingredients of print paste formulation and explain the specific function of each ingredients.

P.T.O.

- 3. Answer any TWO of the following:** **16**
- a) What are azoic colours? With typical print paste formulation explain printing of cotton with azoic colours by direct style.
 - b) Stating the impurities present in raw wool explain a method of preparation of fabric for printing. Also explain with typical print paste formulation printing of wool fabric using metal complex dyes.
 - c) Explain in detail, how special print effects are produced on cotton with Khadi printing, and Crimp styles of printing.
- 4. Answer any TWO of the following:** **16**
- a) What are reactive dyes? Explain printing of cotton with reactive dyes by direct and resist style with typical print paste formulations. Also explain importance of soaping after reactive printing.
 - b) With a line diagram explain working of flat-bed screen printing and state advantages and disadvantages of flat bed screen printing.
 - c) State the ingredients of print paste and explain their specific functions in detail.
- 5. Answer any TWO of the following:** **16**
- a) What are thickeners? Classify thickeners based on their origin. Explain the selection criteria of thickeners for printing using:
 - (i) Reactive dyes and
 - (ii) Vat dyes
 - b) Explain the principles of direct, discharge and resist styles of printing.
 - c) Explain rotary screen printing with its technical features, types of squeezes and advantages and limitations.
- 6. Answer any TWO of the following:** **16**
- a) Write in detail procedure of screen preparation and screen exposing for rotary printing machine.
 - b) Give the print paste formulation for pigment printing and explain the role of binder, fixer and catalyst in printing.
 - c) (i) With suitable diagram, explain working of star ager.
(ii) With typical recipe explain a method of printing silk fabric using acid dyes.
-