

17466

16172

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.
(6) 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 the advantages and disadvantages of Direct dyes.
 - State the classes of vat dyes and methods of dyeing with vat dyes.
 - Draw a neat labelled diagram of Two-dip–Two nip padding mangle machine and write its advantages.
 - Explain the principle and working of continuous dyeing range for textile fabrics.
 - Enlist the various chemicals used in textile fabric printing with their functions.
 - Give the comparison between flat bed printing machine and roller printing machine on any four points.
 - Give the classification of textile finishing processes with their objects.

P.T.O.

- 2. Attempt any TWO of the following:** **16**
- a) Explain in detail, the dyeing of polyester fabric with disperse dyes in Jet dyeing machine.
 - b) Describe the construction and working of Jet dyeing machine. Write the advantages and limitations of Jet dyeing machine.
 - c) Write down the classification of Textile printing thickeners. Write the properties of sodium alginate as a thickener.
- 3. Attempt any TWO of the following:** **16**
- a) Explain various classes of Reactive dyes alongwith their application methods on cotton fabric. Write advantages and limitations of Reactive dyes.
 - b) Describe the construction and working of jigger dyeing machine. Write the various applications of Jigger machine.
 - c) Describe the mechanism of resin finishing on textiles. Explain the method of application of resins on textile fabrics.
- 4. Attempt any TWO of the following:** **16**
- a) Describe the process of dyeing Nylon with disperse dyes and reactive dyes.
 - b) Describe the method for printing of cellulosic fabrics with pigment colours. Write the advantages and limitations of pigments.
 - c) Write down the mechanism of optical brightening for textiles. Give the classification of optical brightness and methods of applications on textiles.
- 5. Attempt any TWO of the following:** **16**
- a) Explain the dyeing process of Acrylic with cationic dyes. Write various applications of Acrylic fabrics.
 - b) What are different styles of printing? Explain discharge style of printing with its advantages and limitations.
 - c) What are the objectives of mercerisation process? Describe the working of Pad-chainless mercerisation machine with it's advantages and limitations.

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

- a) Describe the principle and working of package dyeing machine. Write its working parameters and precautions for better production.
 - b) Explain the construction and working of Rotary printing machine with its advantage and limitations.
 - c) Explain the construction and working of stenter machine. Write its various applications in textile processing.
-