

# 17458

**21314**

**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) Assume suitable data if necessary.
- (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

1. Attempt any **FIVE** of the following: **20**
- a) Describe the working of Gas singeing machine with its advantages.
- b) Explain the terms:
- i) % Shade
- ii) % Expression
- c) Write down the difference between dyeing and printing processes.
- d) Give the concept of Ink Jet printing technique.
- e) State the importance of evaluation the fastness properties of dyed textile fabrics.
- f) Write the method of evaluation for perspiration fastness.
- g) Give the classification of printing thickeners for textile fabrics.

P.T.O.

- 2. Attempt any TWO of the following:** **16**
- a) Explain in detail the bleaching process of cotton fabric with Hydrogen Peroxide. Write down the advantages and limitations of bleaching.
  - b) Explain the process of dyeing cellulosic fabrics by Cold-Pad-Batch method with reactive dyes. Write its limitations.
  - c) Describe the methods of printing:
    - i) Tie and dye,
    - ii) Block printing
- 3. Attempt any TWO of the following:** **16**
- a) Describe enzymatic desizing process and enzymatic scouring process for cotton fabric.
  - b) Explain the construction and working of Jigger machine. Write its various applications.
  - c) Explain the working of rotary printing machine. Write down the developments in rotary printing machine.
- 4. Attempt any TWO of the following:** **16**
- a) What is the objective of mercerisation process? Describe pad-chainless mercerisation process for cotton fabric?
  - b) What are various classes of vat dyes? Explain vat dyes by pad-steam method.
  - c) Describe the direct style and discharge style of printing on cotton with reactive dyes.

- 5. Attempt any TWO of the following:** **16**
- a) What is the objective of shearing and cropping? Describe the construction and working of shearing and cropping machine.
  - b) Explain in detail the importance of ingredients and their functions in textile printing paste.
  - c) Describe the general method for evaluation for textile processed fabrics for:
    - i) Washing fastness
    - ii) Rubbing fastness
- 6. Attempt any TWO of the following:** **16**
- a) Describe the HTHP dyeing method for polyester fabric with disperse dyes.
  - b) Explain in detail, the working of Flat-bed printing machine with its advantages and limitations.
  - c) Explain the resist style of printing on polyester fabric with disperse dyes write its advantages and limitations.
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