

# 22367

**11920**

**3 Hours / 70 Marks**

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (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:** **10**
- a) With flow chart show process sequence for cotton fabric.
- b) Draw a neat labelled sketch of Jigger machine.
- c) Give classification reactive dyes.
- d) State four properties of acid dyes.
- e) List the steps involved in printing process.
- f) List the methods of printing.
- g) State two objects of calendering finish.
- 2. Attempt any THREE of the following:** **12**
- a) Describe acid desizing process with neat sketch.
- b) Describe bleaching process of P/C blend fabric.
- c) Explain the procedure of dyeing of cotton with direct dye.
- d) Explain functions of any four ingredients used in pigment printing.

P.T.O.

- 3. Attempt any THREE of the following:** **12**
- a) Explain the procedure of Mercerization on cotton fabric.
  - b) Explain the working principle of continuous bleaching range with sketch.
  - c) Describe the dyeing process of polyester with disperse dye by carrier dyeing method.
  - d) Compare any four points between batchwise and continuous process of dyeing of fabric.
- 4. Attempt any THREE of the following:** **12**
- a) Describe dyeing of cotton fabric with Reactive cold brand dye.
  - b) Explain dyeing mechanism of silk with Acid dyes.
  - c) Explain the process sequence for dyeing of poly/cotton blended fabric.
  - d) Describe mechanism of Sanforizing machine.
  - e) Write the process of discharge style of printing with direct dye.
- 5. Attempt any TWO of the following:** **12**
- a) Write the application of basic dyes of dyeing on wool fabric.
  - b) Justify the mechanism of direct style, discharge style and resist style of printing.
  - c) Explain the Antimicrobial finishing requirement and give mechanism.
- 6. Attempt any TWO of the following:** **12**
- a) Describe the technical features of Rotary printing machine.
  - b) Explain the application of stenter machine with suitable diagram. Write its advantage and limitations.
  - c) Classify softeners with their properties for textile fibres.
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