

314353

24225

03 Hours / 70 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) Figures to the right indicate full marks.
 - (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) Give the heat setting parameters of synthetic fibres.
 - b) Describe the term compound shade
 - c) List the methods of mass colouration.
 - d) Give classification of Acid dyes
 - e) List the various types of retarders used in acrylic dyeing
 - f) Write four advantage of blending
 - g) List the name of dyes used for dyeing of P/C blends.

P.T.O.

- 2. Attempt any THREE of the following: 12**
- a) Describe the effect of heat setting on properties of polyester fabric.
 - b) Explain working of beam dyeing machine with neat outline sketch.
 - c) Describe the process of carrier dyeing on polyester fabric.
 - d) Explain advantages and limitations of mass colouration of polyester.
- 3. Attempt any THREE of the following: 12**
- a) Explain the effect of mercerisation process on polyester / V/S lose blend.
 - b) Describe the process for HTHP dyeing of polyester.
 - c) Describe the term 'Thermosol' and state the advantages and limitations of thermo solving process.
 - d) Explain the defects in Nylon dyeing and its remedies.
- 4. Attempt any THREE of the following: 12**
- a) List the comonomers used in Acrylic and explain its effect on dyeing.
 - b) Explain mechanism of basic dyeing in Nylon fabric
 - c) Describe one bath dyeing of polyesters cotton blended fabric.
 - d) Explain the process of dyeing Nylon/Cotton by disperse reactive system.
 - e) Describe two bath dyeing of Acrylic/Cotton blend by using disperse reactive systems.

5. Attempt any TWO of the following: 12

- a) Explain working of continuous dyeing range with outline sketch.
- b) Explain procedure for dyeing and precautions needed while dyeing of micro denier polyester
- c) Describe the process of dyeing Nylon fabric with metal complex dyes. State its advantages.

6. Attempt any TWO of the following: 12

- a) Explain the effect of
 - i) Fibre saturation value
 - ii) Dye saturation factor on acrylic dyeing.
 - b) List the defects in dyeing of P/C blends also suggest its remedies
 - c) Explain the process for continuous dyeing of polyester / viscose blend with disperse reactive system.
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