

17564

11819

3 Hours / 100 Marks

Seat No.

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- Instructions* –
- (1) All Questions are *Compulsory*.
 - (2) Answer each next main Questions 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**
- a) List properties of disperse dyes.
 - b) Classify disperse dyes and state different dyeing methods of polyester.
 - c) List auxiliaries used in polyester dyeing and explain their specific functions.
 - d) State different dyeing methods of Acrylic. Also comment on retarders used in acrylic dyeing.
 - e) Describe the faults and their remedies in nylon dyeing.
 - f) State the advantages and limitations of yarn dyeing.
 - g) State the advantages and disadvantages of package dyeing m/c.

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- 2. Attempt any TWO of the following:** **16**
- a) Describe dyeing of polyester by carrier method.
 - b) Explain the concept of rapid dyeing techniques.
 - c) Describe dyeing of polyester/cotton blend using disperse/vat system.
- 3. Attempt any TWO of the following:** **16**
- a) Describe dyeing of polyester/wool blended fabric. Also mention the parameters to be controlled in this dyeing.
 - b) State properties of disperse dyes? Explain the effect of pre-treatments and heat setting on dyeing behaviour of polyester.
 - c) Describe dyeing of acrylic with basic dyes and also comment on fastness properties.
- 4. Attempt any TWO of the following:** **16**
- a) Describe construction and working of Jet dyeing m/c. Also state its advantages and disadvantages.
 - b) Describe yarn dyeing in package form. State faults and remedies of this dyeing.
 - c) Explain dyeing of acrylic with cationic dyes. Also comment on stripping of cationic dyes.
- 5. Attempt any TWO of the following:** **16**
- a) Describe high and low temperature dyeing of nylon.
 - b) Describe dyeing of nylon with acid dyes and explain the role of each auxiliaries used in dyeing.
 - c) Describe dyeing of nylon/wool blended fabric using suitable dye.

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

- a) With neat labelled diagram describe construction and working of CDR. Also state its advantages and disadvantages.
 - b) What is soft flow dyeing machine? Explain its construction and working.
 - c) (i) What is meant by “Saturation value” and “Saturation factor”.
(ii) State the faults and their remedies in dyeing of blended fabrics.
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