

**17564****14115**

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) Figures to the **right** indicate **full** marks.

MARKS

1. Answer **any five** : **20**
- a) What are disperse dyes ? State different dyeing methods of polyester.
 - b) Stating the auxiliaries used in polyester dyeing explain their specific functions.
 - c) State the faults and their remedies in dyeing of blended fabrics.
 - d) State advantages and limitations of yarn dyeing.
 - e) State advantages and disadvantages of jet dyeing machine.
 - f) Comment on retarders used in acrylic dyeing.
 - g) State the faults and their remedies in nylon dyeing.
2. Answer **any two** : **16**
- a) Classify disperse dyes. Explain the effect of pre-treatment's and heat setting on dyeing behaviour of polyester.
 - b) Describe dyeing of polyester by H.T.H.P. dyeing method.
 - c) Describe construction and working of package dyeing machine.
3. Answer **any two** : **16**
- a) Describe dyeing of acrylic with basic dyes and comment on fastness properties.
 - b) Describe dyeing of nylon with acid dyes and explain the role of each auxiliaries used in dyeing.
 - c) Describe dyeing of polyester/wool blended fabric. State the parameters to be controlled in this dyeing.

P.T.O.

**MARKS**

4. Answer **any two** : **16**
- a) With neat labelled diagram describe construction and working of CDR. State advantages and disadvantages of this machine.
 - b) Describe yarn dyeing in package form. State faults and remedies of this dyeing.
 - c) Explain in detail, concept of rapid dyeing technique.
5. Answer **any two** : **16**
- a) Explain dyeing of acrylic with cationic dyes. Also comment on stripping of cationic dyes.
 - b) Describe dyeing of polyester/cotton blended fabric using disperse/vat system.
 - c) What is soft flow dyeing machine ? Explain its construction and working.
6. Answer **any two** : **16**
- a) Explain high and low temperature dyeing of nylon.
 - b) Describe dyeing of Nylon/wool blended fabric using suitable dye.
 - c) i) Explain carrier dyeing of acrylics.
ii) What is the importance of winding angle and package density in yarn dyeing ?
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