

17687

11920

2 Hours / 50 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 SEVEN :

14

- (a) State the importance of testing.
- (b) Write the confirmatory test for reactive dyes.
- (c) State the function of wetting agent.
- (d) Write the method for determining the moisture content in thickeners.
- (e) What is the function of thickeners in printing ?
- (f) How the solid content of resin can be determined ?
- (g) Write the uses of Acetic acid in textile processing.
- (h) Write the shipping method of sulphur dyes.
- (i) Differentiate between bleaching and optical whitening (two points).
- (j) Write the significance of chemical testing in textiles processing.

- 2. Attempt any FOUR :** **12**
- (a) Explain the procedure for testing the dye performance by critical temperature test method.
 - (b) Write the quantitative method of analysis for caustic soda.
 - (c) Describe the procedure for evaluation of binder stability.
 - (d) What is the function of sequestering agent ? Write the method for determination the chelating value.
 - (e) Write the procedure for testing dispersing agent.
 - (f) Explain the testing method for cationic dye-fixing agent by application method.
- 3. Attempt any FOUR :** **12**
- (a) Write the procedure for performance of dye by dispersibility test method.
 - (b) Write the procedure for estimation of Hydrogen peroxide by titrimetry method.
 - (c) What is the principle of stiffening ? Write the method of evaluation of stiffener.
 - (d) Write the procedure for testing carriers by dyeing method.
 - (e) How will you determine the OBA by spectrophotometer method ?
 - (f) Write the procedure for testing of resin for free formaldehyde.
- 4. Attempt any FOUR :** **12**
- (a) What is stripping ? Write the method for stripping of reactive dyes and vat dyes.
 - (b) Write three objectives each of (i) migration test and (ii) levelling test.
 - (c) Write three uses of Sodium Hydrosulphite in textile processing and enlist any three properties.
 - (d) Explain in brief the method of determining the ionic nature of auxiliaries.
 - (e) Describe one method to determine the viscosity of the thickeners.
 - (f) Write the method for evaluation of wetting agent by performance test.
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