

17687

11819

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) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any SEVEN of the following :

14

- (a) State importance of testing.
- (b) Enlist the performance test carried out for disperse dyes.
- (c) Enlist names of four stripping agents.
- (d) What is filtration ?
- (e) Describe the term pH.
- (f) State the role of stiffners in processing.
- (g) What is OBA ? Enlist any two OBAs.
- (h) Describe the term solid content.
- (i) Define the term viscosity.
- (j) Describe the role of dye fixing agent in dyeing.

2. Attempt any THREE of the following : 12

- (a) Explain the procedure for carrying out critical temperature test for disperse dyes.
- (b) Explain the process for stripping of reactive dyes.
- (c) Explain the method for quantitative estimation of hydrogen peroxide.
- (d) Explain the process for checking performance of softeners by application method.
- (e) Describe the process for testing the performance of carriers by dyeing method.

3. Attempt any THREE of the following : 12

- (a) Describe the dispersibility test carried out for disperse dyes.
- (b) Explain the procedure for stripping of vat dyes.
- (c) Describe the process for evaluation of binder stability.
- (d) Explain the process for determination of solid content of auxiliaries.
- (e) Explain the testing of OBA by spectrophotometric techniques.

4. Attempt any THREE of the following : 12

- (a) Describe the process for determination of % purity of caustic soda.
 - (b) Describe the process for testing of free formaldehyde content of resins.
 - (c) Explain the performance test of wetting agents.
 - (d) Describe the process for determination of chelating value of sequestering agents.
 - (e) Explain the process for determination of viscosity of thickeners.
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