

17687

15162

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) Assume suitable data, if necessary.
 - (6) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any SEVEN :

14

- (a) Give the significance of Chemical testing.
- (b) Describe the confirmatory test for vat dyes.
- (c) Describe in brief the method for dye stuff identification on cellulosics.
- (d) Give the procedure for quantitative estimation of caustic soda.
- (e) Write the test method for detecting the ionic nature of auxiliaries.
- (f) What are sequestering agents ? Give their classification.
- (g) Write in brief, the method of determining the chelating value.
- (h) Give the principle of detecting the nature of auxiliaries.
- (i) Write the method of determining the moisture content of thickeners.
- (j) Write the principle of determining the viscosity of thickeners.

2. Attempt any FOUR : 12

- (a) Give the procedure of testing the dye performance by migration test method.
- (b) What is stripping ? How are disperse dyes and acid dyes stripped ?
- (c) Give the procedure for quantitative estimation of H_2O_2 .
- (d) Write the procedure of evaluating the stiffeners by performance test method.
- (e) Give the method for quantitative estimation of UBA.
- (f) Write the grain metric method for determining the solid content of a Resin.

3. Attempt any FOUR : 12

- (a) How will you determine the performance of dye by levelling test method ?
- (b) Write the quantitative method of analysis of Acetic acid.
- (c) Write the procedure for evaluation of binder stability and pH.
- (d) Write the method for testing of free formaldehyde in resin. Also write the method for testing for formaldehyde content.
- (e) How will you determine the OBA by spectroscopic method ?
- (f) Give the method for evaluation of wetting agent by performance test method.

4. Attempt any FOUR : 12

- (a) Write the procedure for evaluation of dyes by critical temperature test method.
 - (b) Give the procedure for the quantitative estimation of sodium hydrosulphite.
 - (c) Write the method for determination of stability and pH of binders used for textile printing.
 - (d) Write down the qualitative method of finding the free alkali and pH of thickeners.
 - (e) Write the performance method for the evaluation of dispersing agent.
 - (f) Explain the dyeing method for testing the efficiency of carries.
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