

17687

21819

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) Figures to the right indicate full marks.

Marks

1. Answer any SEVEN :

14

- (a) Write significance of testing of chemicals.
- (b) What is the objective of migration test and dispersibility test ?
- (c) Write any one stripping method for reactive dyes.
- (d) Differentiate quantitative and qualitative estimation of chemicals.
- (e) What are the units to express the strength of hydrogen peroxide ?
- (f) Why performance tests are better for softners and stiffeners ?
- (g) Define 'sequestering agents. Give one example.
- (h) State the function of dispersing agent.
- (i) State significance of 'solid content' in auxiliaries.
- (j) What is the purpose to find 'free formaldehyde' in resin ?

2. Answer any FOUR :**12**

- (a) Describe testing procedure for dyes by 'migration test' method.
- (b) Write procedure for estimation of strength for 'Acetic acid'.
- (c) How to evaluate stability of binder ?
- (d) Write testing procedure of OBA by spectrophotometric technique.
- (e) Explain testing procedure for dye fixing agents.
- (f) Write procedure to test resins by performance test.

3. Answer any FOUR :**12**

- (a) Write stripping procedure for Vat dyes.
- (b) Write testing procedure for dyes for batch to batch variation.
- (c) How to evaluate efficiency of synthetic stiffener ?
- (d) Describe testing procedure for estimating ionic nature of auxiliaries.
- (e) Describe testing procedure of sequestering agent.
- (f) How to compare two carriers by performance test ?

4. Answer any FOUR :**12**

- (a) Describe which tests to be performed for Reactive dyes.
 - (b) Write testing procedure to evaluate strength of hydrogen peroxide.
 - (c) Explain the procedure for Rubbing fastness testing.
 - (d) Describe any one performance test for evaluating quality of wetting agent.
 - (e) Write 'Solid content' testing procedure for Resins.
 - (f) What is the importance of 'Viscosity' property for thickeners ? Describe any one method.
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