

22674

23242

3 Hours / 70 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 FIVE of the following: 10**
- a) List chemical reagent required for estimation of caustic soda.
 - b) Name the test methods for testing auxiliaries.
 - c) State 'pH' value at which vat dyes and acid dyes can strip out with example.
 - d) Name any four thickener used for cotton and mention their type.
 - e) Enlist quality control test used for mercerization.
 - f) State the testing method for checking performance direct dye.
 - g) Define 'bending length'.
- 2. Attempt any THREE of the following: 12**
- a) Explain procedure to determine critical temperature.
 - b) Describe method of determining solid content of softener.
 - c) State the procedure of finding ash content.
 - d) Describe method to find perspiration fastness.
- P.T.O.

- 3. Attempt any THREE of the following:** **12**
- a) Describe method for stripping of acid dye.
 - b) Describe method to find carboxyl group content.
 - c) Describe selection of cover cloth for washing fastness test.
 - d) Use bending length test method to test finish sample.
- 4. Attempt any THREE of the following:** **12**
- a) Use 'Disperse Ability Test' for testing of disperse dye.
 - b) Explain method to determine free formaldehyde content.
 - c) Describe iodine absorption test for quality control in textile and write its evidence
 - d) Explain procedure to find washing fastness by ISO4 method.
 - e) Describe procedure to find antimicrobial efficiency.
- 5. Attempt any TWO of the following:** **12**
- a) Suggest method for determining stripping of vat dye.
 - b) Use 'BAN' test to find efficiency of mercerisation. State the norms of test.
 - c) Explain procedure to find light fastness of dyed sample. State the norms of test.
- 6. Attempt any TWO of the following:** **12**
- a) Suggest method for testing of dye fixing agent used in dyeing.
 - b) Suggest method to find degradation of cotton after bleaching.
 - c) Explain procedure to find DP ratting of finish sample.
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