

22674

24225

3 Hours / 70 Marks

Seat No.

--	--	--	--	--	--	--	--

-
- Instructions* –
- (1) All Questions are *Compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answer 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) Enlist different dye-stuff performance tests performed during the process of dyeing.
 - b) List out different dyeing auxiliaries.
 - c) List out the specified test methods for quality control in the pretreatments of cotton fabric.
 - d) Define the term “Barium Activity Number”.
 - e) Enlist different colour fastness properties.
 - f) State the norms for testing flammability.
 - g) Name any four class of dyes for stripping.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Describe the need of testing dyes.
 - b) Suggest the suitable test method with procedure for testing of softener.
 - c) Explain testing method for finding whiteness Index of bleached fabric.
 - d) Explain the principle involved in evaluation of colour fasteners .
- 3. Attempt any THREE of the following:** **12**
- a) Describe suitable stripping method for reactive dye from the dyed cotton fabric.
 - b) Describe process for determining moisture content and ash content test for thickener.
 - c) State the norms for testing –
 - i) Copper number and
 - ii) Barium activity number.
 - d) Describe suitable test method for testing antcrease properties.
- 4. Attempt any THREE of the following:** **12**
- a) Explain the process to determine migration of dye.
 - b) Elaborate method to evaluate stability of synthetic binder.
 - c) Explain the process to find axial ratio with their norms.
 - d) Describe the procedure to evaluate dry and rubbing fastness of a dyed cotton sample.
 - e) Suggest the suitable method with procedure to find soil release efficiency.
- 5. Attempt any TWO of the following:** **12**
- a) Describe method of quantitative estimation of hydrogen peroxide.
 - b) Illustrate the suitable test method for testing performance of levelling agent and dispersing agent in dyeing.
 - c) Describe relevant method for evaluation of desizing efficiency.

6. Attempt any TWO of the following:**12**

- a) Demonstrate the procedure for determination of –
 - i) Bending length and
 - ii) Crease recovery angle.
 - b) Select the relevant test method for evaluation of washing fastness of a dyed sample with the norms for the test.
 - c) Describe a method to evaluate efficiency of scouring and give the norms for the same method.
-