

22674

23124

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) 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) Define - “Quality Control”.
 - b) Enlist any four dye-stuff performance tests.
 - c) Define the terms :-
 - i) Moisture Content and
 - ii) Viscosity
 - d) Name any four auxiliaries used in dyeing of textiles.
 - e) Define the terms :-
 - i) Barium activity number and
 - ii) Copper number
 - f) List out various methods of testing colour fastness.
 - g) Define the terms :-
 - i) bending Length and
 - ii) Crease recovery - angle.

P.T.O.

- 2. Attempt any THREE of the following :** **12**
- a) Explain the importance of testing of dyes.
 - b) Describe a relevant test method to determine free formaldehyde content in Resin.
 - c) Describe the procedure for checking the whiteness index with its norms.
 - d) Explain the principle involved in testing colour fastness of a dye with procedure.
- 3. Attempt any THREE of the following :** **12**
- a) Suggest relevant method for stripping acid dye from the fabric.
 - b) Explain a testing method to determine “axial ratio”, with their norms.
 - c) Describe the procedure to evaluate perspiration fastness of a given dyed fabric.
 - d) Explain the method for finding ‘bending length’ of a finished fabric.
- 4. Attempt any THREE of the following :** **12**
- a) Suggest a method for quantitative estimation of hydrogen peroxide.
 - b) Describe a relevant method of testing ash content.
 - c) Suggest a relevant method to evaluate stability of a synthetic binder used in printing of textiles.
 - d) Suggest the relevant test method to evaluate sublimation fastness of dyed polyester fabric.
 - e) Suggest a relevant method to evaluate efficiency of flame retardant finish.

- 5. Attempt any TWO of the following :** **12**
- a) Explain the procedure for migration test of vat dye.
 - b) Suggest relevant method of determining Barium activity number of pretreated fabric.
 - c) Illustrate the methods for testing washing fastness of a given dyed cotton fabric.
- 6. Attempt any TWO of the following :** **12**
- a)
 - i) Write the names of thickeners used for printing of cotton and polyester fabric.
 - ii) Suggest relevant method for testing of moisture content and ash content of the thickener.
 - b) Illustrate methods to find efficiency of scouring and bleaching with their norms.
 - c) Use Iodine absorption and crease recovery angle method to test finished fabric.
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