

# 22674

**22223**

**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) Assume suitable data, if necessary.
  - (5) Use of Non-programmable Electronic Pocket Calculator is permissible.
  - (6) 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 the reagent required for estimation of acetic acid.
  - b) Enlist the dyes which are used for dyeing of cotton.
  - c) Name the test method which used for testing of printing binder.
  - d) State the quality control test for mercerisation.
  - e) State the significance of Iodine absorption test.
  - f) State the term bending length.
  - g) Define free formaldehyde contain of textile material.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Demonstrate the process to determine disperseability of disperse dye.
  - b) Describe method to determine a stiffer used in textile by performance test.
  - c) Elaborate the procedure to find carboxylic group contain in cotton with their norms.
  - d) Describe the procedure to find out the perspiration fastness of dyed cotton fabric.
- 3. Attempt any THREE of the following:** **12**
- a) Describe the method to evaluate performance of textile thickeners.
  - b) Describe the method used for testing of moisture contain of textiles.
  - c) Illustrate the procedure to find bleaching fastness of 100% cotton fabric.
  - d) Using 45° angle flamability test, evaluate the performance of FR finish fabric.
- 4. Attempt any THREE of the following:** **12**
- a) Set up a test method for estimation of sodium hydrosulphite.
  - b) Select and elaborate a physical test method for evaluation of binder.
  - c) Conduct a test method for evaluation of efficiency of scouring.
  - d) Demonstrate the standard procedure of wet rubbing fastness test for testing of reactive dyed sample.
  - e) Propose a test method find out the wrinkle resistance property of resin finish fabric.

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

- a) Demonstrate the methods for stripping of reactive dye and vat dye from 100% cotton fabric.
- b) Outline the method to evaluate whiteness index of bleach fabric and give the norms for dyed and bleach finished fabrics.
- c) Use ISO-5 method to determine the washing fastness property of cotton fabric.

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

- a) Suggest a test method used for determining the performance of a dispersing agent.
  - b) Suggest the BAN method to find efficiency of mercerisation and give norms.
  - c) Explain soil repellency rating test to evaluate soil release finishing of a' given 100% polyester fabric.
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