

22360

24225

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 answer with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (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) State the objective of singeing process.
 - b) Name any four mechanical pretreatments.
 - c) Write the importance of sizing.
 - d) Define the term Desizing.
 - e) State the importance of Bleaching.
 - f) Write the factors affecting mercerisation of cotton.
 - g) State the purpose of scouring cotton.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Describe the process of determining moisture content in starch.
 - b) Classify softeners with their properties used for textile fabrics.
 - c) Explain the mechanism of sodium hypochlorite bleaching.
 - d) Explain Enzymatic desizing process for grey cotton.
- 3. Attempt any THREE of the following:** **12**
- a) Explain the procedure to evaluate the scouring efficiency of a fabric.
 - b) Explain the factors affecting the bleaching of polyester / cotton blend fabric.
 - c) Explain Caustisation process with its significance.
 - d) Explain the process of crabbing of wool.
- 4. Attempt any THREE of the following:** **12**
- a) Compare four point and ten point system of fabric inspection.
 - b) Describe the method of evaluating desizing efficiency of cotton.
 - c) Explain the process of solvent scouring with its process parameters.
 - d) Continuous bleaching process is more different than other methods of bleaching. Justify.
 - e) Explain the changes occur in cotton fibre by mercerization process.
- 5. Attempt any TWO of the following:** **12**
- a) Describe with neat sketch the construction and working of Gas singeing machine.
 - b) Suggest the suitable method for identifying the size present on the grey fabric.
 - c) Explain the term Degumming with the methods used for degumming of silk.

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

- a) With neat sketch explain the features of a padless - chainless mercerizing machine.
 - b) Explain construction and working of vertical kier used for scouring of 100% cotton.
 - c) Explain the method of bleaching for cotton fabric with hydrogen peroxide. Write the advantages and limitations of this method.
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