

22360

11819

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) Enlist any four names of sizing ingredients for textiles.
 - b) State the object of singeing process.
 - c) Classify desizing methods for cotton.
 - d) State the objectives of scouring process.
 - e) Define the term - Bleaching of fabric.
 - f) List the objects of mercerisation of cotton fabric.
 - g) State the factors affecting mercerisation of cotton.

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- 2. Attempt any THREE of the following: 12**
- a) Explain various ingredients used in sizing paste formulations alongwith their functions.
 - b) With neat sketch describe Enzymatic desizing process for grey cotton.
 - c) Explain the factors affecting the bleaching of polyester / cotton blend fabric.
 - d) Describe with sketch the process of pad - chainless mercerisation of cotton.
- 3. Attempt any THREE of the following: 12**
- a) Describe the sizing process with neat sketch for cotton yarns.
 - b) Explain the method for evaluation of desizing efficiency.
 - c) With suitable sketch explain the method of crabbing for wool.
 - d) Suggest any one method for bleaching of silk fabric.
- 4. Attempt any THREE of the following: 12**
- a) Classify softeners with their properties used for textile fabrics.
 - b) State the object of shearing and cropping and draw a neat sketch of shears and cropping machine.
 - c) Suggest a suitable method for desizing of cotton fabric.
 - d) Compare any four points between Hydrogen peroxide bleaching and sodium chlorite bleaching.
 - e) Justify continuous bleaching process is more efficient than other methods of bleaching.

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

- a) Describe with neat sketch, the construction and working of Gas singeing machine. Write its advantages and limitations also.
- b) Explain the term - Degumming and describe the methods used for degumming of silk.
- c) Justify with reactions, the sub processes, involved in the scouring of cotton.

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

- a) Suggest the relevant method of scouring for cotton and polyester / cotton blend fabrics.
 - b) Describe the method of bleaching for cotton fabric with Hydrogen Peroxide. Write the advantages and limitations of this method.
 - c) Select the process parameters for mercerisation of cotton fabric with liquid ammonia with justification.
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