

17342

14115

3 Hours / 100 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: 20
- State and explain the objectives of sizing.
  - Describe the importance of grey inspection in textile processing.
  - Give brief classification of desizing treatments.
  - What is scouring? Explain mechanism of saponification.
  - State the advantages of hydrogen peroxide bleaching.
  - What is mercerisation? What are the changes brought about by mercerisation?
  - Describe degumming process of silk.

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- 2. Attempt any FOUR of the following:** **16**
- a) Describe keeping and congealing properties of adhesives.
  - b) What precautions are necessary while bleaching of coloured woven goods?
  - c) State and explain the factors affecting mercerisation process.
  - d) Describe four point fabric inspection system of fabric inspection.
  - e) What is crabbing of wool? Explain the method in detail.
  - f) Differentiate between hot and cold mercerisation.
- 3. Attempt any FOUR of the following:** **16**
- a) State the importance of stitching enlist the names of fabric inspection machines.
  - b) With a neat sketch, explain the construction and working of vertical pressure Kier.
  - c) Why enzyme desizing is called as latest method of desizing?
  - d) Describe the method for evaluation of efficiency of desizing.
  - e) Give the process sequence for pretreatment of silk goods.
  - f) Explain the reactions involved in scouring process.
- 4. Attempt any FOUR of the following:** **16**
- a) What is Barium activity number? Explain the method of determining the same.
  - b) Explain the working of two cutter and four cutter shearing and cropping machine.
  - c) Give the method for scouring of coloured woven goods.
  - d) Explain working of soft flow machine with neat sketch.
  - e) Explain the mechanism of  $H_2O_2$  bleaching.
  - f) State the role of stabilizer in Hydrogen peroxide bleaching and enlist the stabilizer used for peroxide bleaching.

- 5. Attempt any FOUR of the following:** **16**
- a) Differentiate between Hydrogen Peroxide and Sodium Hypochlorite on the basis of their advantages and limitations.
  - b) Write a note on the classification of adhesives.
  - c) Describe the method for evaluation of bleaching efficiency.
  - d) With neat sketch explain yarn mercerisation.
  - e) Describe the objects of singeing and explain the working of gas singeing machine.
  - f) What is causticisation treatment? Explain the method of causticisation.
- 6. Attempt any FOUR of the following:** **16**
- a) Explain in detail the method of alkaline scouring.
  - b) Explain the changes taking place cellulose structure during mercerisation.
  - c) Give size paste formulation for P/c and cotton yarns.
  - d) What is carbonisation of wool? Explain the treatment.
  - e) With neat sketch, explain continuous desizing method.
  - f) Explain the objects of shearing and cropping.
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