

314354

12526

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) Define the term finishing.
- b) State the object of softening of Textiles.
- c) State objectives of resin finishing.
- d) Compare pre cure with post cure method of resin finishing.
- e) State the LOI values of cotton and wool fibre.
- f) State the advantages of antimicrobial finishing.
- g) List any four application of antimicrobial finishing.

P.T.O.

- 2. Attempt any THREE of the following : 12**
- a) Explain the classification of finishing processes with suitable example.
 - b) State the advantages and disadvantages of silicon softener.
 - c) State the advantages and disadvantages of resin finishing.
 - d) State the thermal behaviour of cotton and wool with their LOI.
- 3. Attempt any THREE of the following : 12**
- a) Compare exhaust application with continuous application method for fabric finishing.
 - b) Describe the application method of reactive softener on cotton fabrics.
 - c) Describe the properties of DMDHEU used as cross linking agent with cotton.
 - d) Describe any four parameters affecting on the flame retardancy properties of textile fibre.
- 4. Attempt any THREE of the following : 12**
- a) Explain the acid milling of wool fibre with chemical formulation.
 - b) Suggest the performance test for stiff finishing and Explain it.
 - c) Identify the advantages and disadvantages of formaldehyde based resins.
 - d) Explain the burning cycle of textile fibres.
 - e) Describe any two natural antimicrobial finishing agents with their properties.

- 5. Attempt any TWO of the following :** **12**
- a) With neat sketch describe the working of stentor machine. Write its advantages also.
 - b) Choose relevant softener for polyester fibre to get soft finish. State its properties and application method also.
 - c) Explain the mechanism of crease formation and crease retention for 100% cotton fabric and describe the method to test crease recovery angle of the fabrics.
- 6. Attempt any TWO of the following :** **12**
- a) Explain resin finish application method on 100% cotton with chemical formulation.
 - b) Describe the vertical method of analysis for flame retardancy of Textiles
 - c) Explain the “Soil test” method for evaluation of antimicrobial finishes for cotton.
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