

314354

24225

03 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) Classify finishing with example.
 - b) Classify softener used in textile finishing.
 - c) State the object of resin finishing.
 - d) State process sequence for pre cure and post cure method.
 - e) Describe the thermal behaviour of cotton fibre.
 - f) State the object of antimicrobial finishing.
 - g) List any four application of antimicrobial finishing.

2. **Attempt any THREE of the following:** **12**
 - a) State the object of calendaring and sanforising process.
 - b) State the advantages and disadvantages of reactive softener.
 - c) State the advantages and limitations of resin finishing.
 - d) Define the term “LOI”. State the LOI for any four fibre.

P.T.O.

- 3. Attempt any THREE of the following:** **12**
- a) Compare exhaust application with continuous application.
 - b) Describe the application method of silicon softener.
 - c) Describe the manufacturing of DMU. State the properties of DMU.
 - d) Describe thermal behavior of cotton, wool, polyester and Nylon fibre.
- 4. Attempt any THREE of the following:** **12**
- a) Calculate total finish chemical required for finishing of 5000m fabric for given data, GSM=200, Width=150cm Percentage expression=70%.
 - b) Explain the mechanism of cationic softener for cotton fabric.
 - c) Describe the application method of resin finish for shirting fabric.
 - d) Explain the burning cycle of textile fibre.
 - e) Describe the desirable properties of a good antimicrobial finish.
- 5. Attempt any TWO of the following:** **12**
- a) Suggest finishing machine for chemical application. With neat sketch describe working of machine.
 - b) Choose relevant softener for cotton to get permanent soft finish. State its properties.
 - c) Explain role of catalysts used in resin finishing with chemical reactions.
- 6. Attempt any TWO of the following:** **12**
- a) Explain the crosslinking reaction of DMDHEU with cotton. State the properties of DMDHEU.
 - b) Explain coating theory of flame retardancy with reaction.
 - c) Explain the “Agar plate” method for evaluation of antimicrobial finishes for cotton.
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