17469

21415

3 Hours / 100 Marks **Seat No.** | | | | | | | | |

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.

Marks

1. Solve any FIVE of the following : **20**

(a) Explain the objects of finishing.

(b) Enlist the various ingredients with their objects used in resin finishing.

(c) Describe the objects antimicrobial finishing.

(d) Enlist the types of antimicrobial finishes with their examples.

(e) Differentiate between water repellent and water proof finishes.

(f) Describe advantages of nano finishes compared to conventional finishes.

(g) Describe the process of scroopy finish for silk.

2. Solve any FOUR of the following : **16**

(a) Give classification of softners with their examples.

(b) Compare any two method of application of finishes. Which method is widely practiced in industries ?

(c) Describe with neat labeled sketch 7 bowl calendar used in finishing.

(d) Describe working principle of sanforising machine. Enlist the parameters affecting the process of sanforising.

(e) Enlist the important parts of stenter machine with their role during working.

(f) State the objects of Lissa finish. Which fabrics are finished using this technique ?

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3. Solve any FOUR of the following : **16**

(a) Write classification of finishing agents for Textiles with examples.

(b) Write any four important properties of silicone softner.

(c) Describe the method of application of cationic softners on cotton fabrics.

(d) Compare the properties of non-ionic softner with Reactive softner.

(e) Describe the method of application for stiffners on various fabrics.

(f) Describe any one method to evaluate the efficiency of softner application.

4. Solve any FOUR of the following : **16**

(a) Describe the objects of resin finishing.

(b) Explain the mechanism of creasing of cotton fabrics.

(c) Describe with structure the properties of DMDHEU resin.

(d) Differentiate between pre-cure method and post-cure method of resin finishing.

(e) Describe limitations of resin finishing.

(f) Explain any one method to evaluate efficiency of flame retardancy in finishing.

5. Solve any FOUR of the following : **16**

(a) Describe mechanism of OBA finishing.

(b) Differentiate between OBA and blueing agents.

(c) Explain any two methods of application of OBA on cotton fabrics.

(d) Describe any one method for stripping of OBA from cotton fabrics.

(e) Describe the process of moth proofing of wool.

(f) Explain any one method for evaluation of antimicrobial finishes.

6. Solve any FOUR of the following : **16**

(a) Describe the burning cycle of various textile fabrics.

(b) Enlist the factors affecting flame retardancy of textiles.

(c) Define ‘Limiting Oxygen Index’. Explain the significance of L.O.I. in flame retardant finishing.

(d) Describe the mechanism of flame retardant finishing.

(e) Give classification of flame retardants. Write essential requirements of a good flame retardant.

(f) Explain the concept of wash-n-wear finish for Textiles.

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