

22577

22223

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) Assume suitable data, if necessary.
 - (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) State the objectives of heat setting.
 - b) Define “Pilling.”
 - c) State types of soiling.
 - d) State the factors affecting soiling.
 - e) Define “percentage expression.”
 - f) Give classification of softeners.
 - g) State the objectives of “Decatising.”

P.T.O.

- 2. Attempt any THREE of the following: 12**
- a) Describe the changes taking place in proportion of synthetic fibres due to heat setting.
 - b) Describe causes of pill formation and its mechanism.
 - c) Describe mechanism of soiling of textiles.
 - d) With a neat sketch, describe static foam generation method.
- 3. Attempt any THREE of the following: 12**
- a) Describe heat setting conditions for synthetic fibre and their blends - with justification.
 - b) Select the relevant chemical formulation for soil release finishing on textiles.
 - c) Write the procedure to determine percentage expression on padding mangle with suitable example.
 - d) Explain the concept and importance of weight reduction of polyester.
- 4. Attempt any THREE of the following: 12**
- a) Apply the principle of Lab stenter machine for measurement of percentage shrinkage.
 - b) Justify - synthetic fibres requires heat setting.
 - c) Select a relevant foam finishing method for finishing of synthetic fabric.
 - d) Formulate recipe for dyed polyester fabric to be get silk like finish.
 - e) With neat sketch describe crabbing process of wool fabric.

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

- a) Heat setting improves dye ability of polyester fibre. Justify the statement.
- b) Select a relevant antipilling method of finishing to minimize pill with justification.
- c) Describe the concept and applications of nano technology in textile processing.

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

- a) Formulate chemical recipe for soil release finishing of textiles with justification.
 - b) Formulate finishing recipe for polyester fabric to get soft, medium and stiff finish.
 - c) Apply microencapsulation technic to get special finishing effect on textiles.
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