

17566

16172

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) Assume suitable data, if necessary.
 - (6) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of following :

20

- (a) Enlist various objects of heat setting.
- (b) Define pilling. Give chemical method to minimise pilling.
- (c) What is foam ? State the advantages of foam finishing.
- (d) Define soiling. Describe the types of soil.
- (e) Explain milling process.
- (f) What is 'HLB' value ? Write the significance of HLB value.
- (g) State importance of microencapsulation. Enlist the finishes applied by using microencapsulation.

2. Attempt any FOUR of following :**16**

- (a) Describe the factors affecting on pilling tendency.
- (b) Describe the mechanism of pill formation.
- (c) Compare foam finishing with conventional finishing.
- (d) Explain various factors affecting on foam stability.
- (e) What is micro denier polyester ? Enlist different finish used for micro denier polyester.
- (f) Compare macro emulsion with micro emulsion.

3. Attempt any FOUR of following :**16**

- (a) Describe mechanism of heat setting.
- (b) What is blow ratio ? Write down significance of blow ratio in foam finishing.
- (c) Describe mechanism of soil release for oily soil.
- (d) Write down mechanism of soil release for particulated soil.
- (e) Describe crabbing process for finishing of wool.
- (f) Enlist four applications of nano technology in garment finishing.

4. Attempt any FOUR of following :**16**

- (a) Compare gray heat setting with heat setting after dyeing process.
- (b) Explain the effect of heat setting on dye ability of polyester.
- (c) Describe static foam generation method.
- (d) What is different soil release finishing agent ? Explain any one.
- (e) Explain the mechanism of weight reduction of polyester.
- (f) Describe microencapsulation for fragrance finish in textile finishing.

5. Attempt any TWO of following :**16**

- (a) Describe structural changes taking place in polyester after heat setting.
- (b) Enlist the method for application of foam. Explain one method with neat outline sketch.
- (c) Write down procedure for evaluation of soil release finishing.

6. Attempt any TWO of following :**16**

- (a) Explain the various stages of heat setting. Give heat setting conditions for
 - (i) Texturized polyester
 - (ii) Polycotton blended fabric
 - (b) Describe factor affecting on pilling of yarn and fabric stage.
 - (c) What is nano finish ? State its importance. Explain its one application in chemical finishing.
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