

22367

23124

3 Hours / 70 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Illustrate your answers with neat sketches wherever necessary.
 - (3) Figures to the right indicate full marks.
 - (4) Assume suitable data, if necessary.
 - (5) 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 objective of Mercerization.
 - (b) Name the bleaching agents used for bleaching polyester/wool blended fabric.
 - (c) Write the molecular structure of Direct dye.
 - (d) Write any four characteristics of Acid dye.
 - (e) Name the discharging agent used in discharge printing (Chemical name and Common name both).
 - (f) State the objective of Printing.
 - (g) Classify the softness used in finishing.
- 2. Attempt any THREE of the following : 12**
- (a) Classify singeing machines and describe gas singeing machine.
 - (b) Compare batch wise and continuous method of bleaching (any four points).
 - (c) Describe dyeing of cotton fabric with hot brand reactive dyes.
 - (d) Describe the mechanism of printing by pigments.



- 3. Attempt any THREE of the following : 12**
- (a) Compare acid desizing with enzyme desizing (any four points).
 - (b) Describe the Wet process sequence for P/C blended fabric.
 - (c) State the need of after treatments on direct dyed goods and explain any one method.
 - (d) Describe dyeing of polyester fabric in HTHP dyeing machine.
- 4. Attempt any THREE of the following : 12**
- (a) Describe application of Vat dyes on cotton materials.
 - (b) Describe with sketches the procedure of dyeing wool with acid dyes.
 - (c) Describe dyeing mechanism while dyeing of nylon with metal complex dyes.
 - (d) Discuss the different Squeegee system used in rotary screen printing machine.
 - (e) Describe with neat sketch any four types of Calendaring finish.
- 5. Attempt any TWO of the following : 12**
- (a) Justify, the need of carrier for dyeing polyester with disperse dye.
 - (b) “Discharge style of printing for white discharge effect requires, ground of fabric, dyed with dye which will be easily destroyed during printing.” Justify, the statement.
 - (c) Describe the mechanism of creasing and resin finishing.
- 6. Attempt any TWO of the following : 12**
- (a) Which type of dyes are suitable for resist style printing ? How is white resist style of printing done on cotton fabric ?
 - (b) Describe the requirements and mechanisms of antimicrobial finish for cotton fabric.
 - (c) Justify the importance of LOI and its relation with thermal behaviour of textiles.
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