

Roll No.

Total No. of Pages : 2

BT-8/JX

9632

Processing of Man Made and Blended Textiles

Paper : TT-424

Time : Three Hours]

[Maximum Marks : 100

Note :— Attempt any FIVE questions selecting at least
ONE question from each unit.

UNIT—I

1. Discuss the major objectives of blending. 20
- Why it is customary to tint one of the blend components ? What are the conditions for a dye to be eligible for tinting purpose ? Why the synthetic component is normally tinted ? Which type of dyes are normally recommended for tinting ? Explain.
- 5+5+5+5=20

UNIT—II

3. (a) Explain 'free volume theory'. Why such theory of dye diffusion holds good for polyester-disperse dye-system ? 10+3
- (b) Explain the morphological changes in the structure of polyester fabric that are brought about on heat setting. 7
4. Discuss the various theories of carrier dyeing of polyester as proposed by different investigators. In your opinion which one is the most suitable ? What are the advantages and disadvantages of carrier dyeing ? 10+5+5

UNIT—III

5. Discuss the continuous method of dyeing of polyester/cotton blend with all technical details for disperse/reactive combination. 20

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(Contd.)

6. For printing of P/C blends describe the following :
- (a) Pigment printing
- (b) Dispersal PC/Process T dye combination
- (c) Conventional disperse/reactive dye combination.

UNIT—IV

7. Illustrate the following :
- (a) Antistatic finish for polyester
- (b) Soil release finish for polyester. 10×2=20
8. Discuss the different mechanical finishing treatment imparted to various types of polyester blend fabrics. 20

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