

22575

11920

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.

Marks

- 1. Attempt any FIVE of the following :** **10**
 - (a) State the effect of scouring and bleaching of polyester on dyeing.
 - (b) State any four properties of disperse dyes.
 - (c) Enlist any four advantages of carrier dyeing.
 - (d) State classification of metal-complex dyes.
 - (e) Define saturation factor and dye saturation value.
 - (f) Enlist dyeing methods for blended fabrics.
 - (g) State dye combinations used for dyeing of nylon/polyester and Acrylic/Wool blend.

- 2. Attempt any THREE of the following :** **12**
 - (a) With neat sketch, explain construction and working of soft flow dyeing machine.
 - (b) Differentiate dyeing behaviour of micro-denier and normal polyester.
 - (c) Describe procedure for dyeing of nylon with acid dyes.
 - (d) State defects in dyeing of blended fabric and suggest remedies.

- 3. Attempt any THREE of the following : 12**
- (a) Describe the effect of heat setting on dye uptake of polyester.
 - (b) Compare carrier dyeing with H.T.H.P. dyeing of polyester.
 - (c) Describe the factors affecting dyeing quality of nylon.
 - (d) Suggest methods/precautions to achieve solid shade on polyester cotton blended fabric.
- 4. Attempt any THREE of the following : 12**
- (a) Suggest precautions for dyeing of texturized polyester.
 - (b) Describe mechanism of nylon dyeing with acid dyes.
 - (c) Describe types of retarders used in acrylic dyeing.
 - (d) State defects in acrylic dyeing and suggest remedies.
 - (e) Explain dyeing of polyester/cotton blended fabric with disperse/reactive dyes by two bath method.
- 5. Attempt any TWO of the following : 12**
- (a) With neat sketch, describe construction and working of continuous dyeing range.
 - (b) Describe dyeing of polyester by H.T.H.P. method with its advantages and limitations.
 - (c) Compare single component dyeing and blend dyeing with respect to method, dyeing cost and production.
- 6. Attempt any TWO of the following : 12**
- (a) Describe methods of dyeing polyester by mass colouration. Write advantages and limitations.
 - (b) Select relevant method for dyeing of Acrylic/Wool blend with two bath dyeing technique.
 - (c) Enlist defects occurred in blend dyeing. Suggest precautions to avoid it. Suggest remedies to correct the faults.
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