23124 3 Hours / 70 Marks

Seat No.

Instructions:

- (1) All Questions are *compulsory*.
- (2) Figures to the right indicate full marks.
- (3) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE:

10

- (a) Define Heat Setting.
- (b) State the advantages and limitations of CDR machine.
- (c) State the chemical properties of polyester fibre.
- (d) State the function of retarders in acrylic dyeing.
- (e) State colour effects produced by blending of fabrics.
- (f) State the advantages of cartinean methods for blend fabric dyeing.
- (g) Compare batch dying method to cartinean dyeing method in two points.

2. Attempt any THREE:

12

- (a) Describe the effect of scouring an dyeing behaviour of polyester.
- (b) Describe the thermosol dyeing method for polyester fabric.
- (c) Explain the defects in dyeing of acrylic and write their remedies.
- (d) Suggest the remedies for faults in blend dyeing.



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3.	Atte	empt any THREE:	12
	(a)	Describe the scouring and bleaching formulations for Nylon fabric.	
	(b)	Describe the classification of Acid dyes with their properties.	
	(c)	Justify the need of levelling agents in Nylon dyeing.	
	(d)	Explain the procedure for dyeing of polyester/cotton blend with disperse/reactive system.	
4.	Atte	empt any THREE :	12
	(a)	With neat sketch, explain the working principle of soft flow dyeing machine.	
	(b)	Describe the mass colouration method for polyester dyeing.	
	(c)	Describe the dyeing method for acrylic with disperse dyes.	
	(d)	Suggest the procedure for dyeing polyester/wool fabric with suitable dye	
		formulation.	
	(e)	Explain the procedure of one bath dyeing of polyester/cotton blend.	
5.	Atte	empt any TWO :	12
	(a)	With neat sketch, describe the working of Jet dyeing machine.	
	(b)	Suggest the procedure for dyeing of polyester with carrier method. Write its advantages and limitations.	
	(c)	Explain the use of fibre saturation factor and dye saturation value in dyeing of Acryline fabric with justification.	
6.	Atte	empt any TWO :	12
	(a)	Suggest stepwise procedure of dyeing polyester by High Temperature High	
		Pressure method. Write its advantages and limitations also.	
	(b)	Identify any two faults and give their remedies in Nylon dyeing with acid dyes and basic dyes.	
	(c)	Compare the techno commercial aspects of dying blends with respect to single component substrate.	