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3	Ho	ours / 100 Marks Seat No.							
L	Instri	uctions – (1) All Questions are Compulsory.							
		(2) Answer each next main Question on a new page.							
		(3) Figures to the right indicate full marks.							
		(4) Use of Non-programmable Electronic Pocket Calculator is permissible.							
		(5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.							
		Marks							
1.		Attempt any <u>TEN</u> of the following: 20							
	a)	Write the objectives of textile finishing?							
	b)	Outline give the procedure for dyeing of cotton with azoic dyes.							
	c)	Define :							
		(i) Fiber							
		(ii) Yarn							
	d)	Write the classification of direct dyes.							
	e)	Write the process of printing of cotton fabric with vat dyes.							
	f)	Define the term "Printing".							
		Circuit the encounter of mechanical and shamical finishes							

- g) Give two examples of mechanical and chemical finishes.
- h) Name two azoic dyes. Indicate the chromosphere.
- i) Name the chemicals used for the dissolution of sulphur dyes.
- j) Give any two advantages of yarn dyeing process.
- k) Give the classification of textile finishes.

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- 1) Name different methods of printing of textiles.
- m) Explain significance of heat setting of Polyester.
- n) Distinguish between batch process and continuous process.
- o) Define a dye. Name dyes used for dyeing of cellulosic fibres.

2. Attempt any <u>FOUR</u> of the following:

- a) Distinguish between dyes and pigments.
- b) Describe the different types of resins used for the finishing of cotton fabrics.
- c) With a well labelled diagram, explain the working and construction of Jet dyeing machine.
- d) With proper recipe, explain the procedure of printing of cotton using reactive dyes.
- e) Explain with examples, the water repelent finishes on textile materials.
- f) Define Vat dyes. Classify vat dyes, giving examples.

3. Attempt any <u>FOUR</u> of the following:

- a) Write the constructional features and describe working of Stenter machine.
- b) Explain the styles of printing with their methods of applications on textile fibres.
- c) Write the constructional features and working of package dyeing machine.
- d) Explain the process of dyeing of polyester and cotton blended fabrics.
- e) Explain the flame retardant finishes applied on textile fabrics.
- f) Explain any two after treatments which are carried out on direct dyed fabrics to improve the fastness properties.

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4.		Attempt any FOUR of the following:	16
	a)	Explain working principle of Jigger dyeing machine.	
	b)	Describe the procedure of carrying out discharge style of printing of vat dyed fabrics.	
	c)	(i) Define mercerization.	1
		(ii) Explain the changes that take place on cotton fabrics during mercerization.	3
	d)	Describe the process of dyeing of acrylic with cationic dyes.	
e)		With a neat and well labelled diagram, explain different types of padding mangles.	
	f)	Explain the dyeing of Nylon with reactive dyes.	
5.		Attempt any FOUR of the following:	16
	a)	Name the various chemicals used in printing. State the functions of each of them.	
	b)	What are optical brightening agents? Explain the chemistry involved in optical brightening agents with two examples.	
	c)	(i) Write working of a winch dyeing machine.	
		(ii) State its advantages.	
	d)	Explain with example, flame retardant fabrics.	
	e)	Describe the printing of cotton fabric using pigments by using direct style of printing.	
	f)	Draw a well labelled diagram of flat bed screen printing	

6.

			Marks
	Atte	empt any TWO of the following:	16
a)		cribe the various methods of dyeing of polyester with erse dyes.	
b)	(i)	Explain the construction and working of Sanforising machine.	6
	(ii)	State application in textile finishing.	2
c)	(i)	Describe the construction and working of "Rotary screen printing machine.	." 5
	(ii)	State advantages and limitations.	3