22360

1	11920													
3	Ho	ours /	70	Marks	Seat	No.								
Instructions – (1)		(1)	All Questions are Compulsory.											
			(2)	Answer each	next main	Questi	on	on	a no	ew	pag	ge.		
			(3)	Illustrate your necessary.	answers	with ne	at s	sketo	ches	wl	here	ever		
			(4)	Figures to the	right ind	licate fu	ıll n	nark	S.					
			(5)	Assume suitab	le data, i	f necess	sary.							
			(6)	Use of Non-pr Calculator is p	•		ctroi	nic	Poc	ket				
			(7)	Mobile Phone, Communication Examination H	n devices	•								
												Ma	rks	
1.		Attempt	t any	<u>FIVE</u> of the	following	:							10	
	a)	Write any four objectives of sizing.												
	b)	Justify the importance of shearing and cropping.												
	c)	Enlist the different types of desizing chemicals available for desizing.												
	d)			flow chart of the various processes involved in the nt of 100% cotton fabric.										
	e)	Define 1	Rot s	eeping desizing. Give two limitations of it.										
	f)	Why is	sodi	um hypochlorit	e bleachi	ng not	pre	eferr	ed	nov	v a	L		

g) What is the purpose of Caustiazation?

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2.

Attempt any THREE of the following: a) Enlist the ingredients of a sizing recipe and write the function of each ingredients. b) Explain the four point fabric inspection system? Write the criteria for rejection. c) Describe the souring process of 100% PET poplin fabric with recipe. Write the bleaching recipe for PET using sodium chlorite d) bleaching process. Also write the functions of each ingredient. Attempt any THREE of the following:

3.

- Write a note on the types of starches used in sizing of textile a) yarns.
- b) Describe a method to determine the desizing efficiency of given 100% cotton poplin fabric.
- With reactions, explain the mechanism of scouring 100% cotton c) cambric fabric.
- Enlist and explain the factors affecting the mercerisation process. d)

4. Attempt any THREE of the following:

- With a neat labelled diagram explain the milling process of a) 100% wool.
- Enlist and explain the precautions to be taken during the b) bleaching of 100% woollen fabric.
- Enlist the changes occuring in cotton fibres due to mercerisation c) process.
- Write a formulation for bleaching of 100% cotton fabric using d) H_2O_2 . Give the function of each ingredient.
- e) Describe the procedure of evaluating the mercerising efficiency of 100% cotton fabric.

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5. Attempt any <u>TWO</u> of the following:

- a) With a neat labelled diagram, write the construction and working principle of two way gas singeing machine.
- b) Explain the different method of scouring of textiles.
- c) Write the mechanism of H_2O_2 bleaching of 100% cotton fabrics. Enlist and explain the factors affecting the bleaching.

6. Attempt any <u>TWO</u> of the following:

a) What are the objectives of degumming silk fabrics? Enlist and explain the different methods.

- b) Enlist and explain the factors affecting the desizing process of 100% cotton fabric.
- c) Write a note on :
 - (i) Hot mercerisation
 - (ii) Liquid ammonia mercerisation

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