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3 He	ours /	70	Marks	Seat	No.							
Instructions – (1) All Questions are Compuls												
		(2)	Answer each	next main	Quest	ion	on a	a ne	ew	pag	e.	
		(3)	Illustrate your necessary.	answers v	with ne	eat s	sketc	ches	wł	nere	ever	
(4) Figures to the right indicate full marks.												
(5) Assume suitable data, if necessary.												
	(6) Use of Non-programmable Electronic Pocket Calculator is permissible.											
	(7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.											
]	Mai	rks
1. Attempt any <u>FIVE</u> of the following:										10		
a)	Enlist four objectives of sizing.											
b)	Justify the importance of two mechanical pretreatments.											
c)	Define the term Desizing.											
d)	Enlist th	Enlist the hydrophobic matter present in cotton										
e)	Write ar fabric in	•	ur weaving fau ion.	lts found	in grey	y fal	bric	dur	ring			

- f) Write the qualitative method to identify the size present on grey fabric.
- g) Enlist the solvent used for scouring of textiles.

Attempt any <u>THREE</u> of the following: a) Write a note on the different types of adhesives used

- a) Write a note on the different types of adhesives used for sizing of textile yarns.
- b) Compare four point and ten point system of fabric inspection also mention the criteria for rejections.
- c) Describe the procedure to evaluate the scouring efficiency of given fabric.
- d) Explain the mechanism of sodium hypochlorite bleaching . Write the factor affecting efficiency of process.

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

- a) Write and justify the size paste formulation for 100% cotton and PLC blended poplin fabric.
- b) With a neat labelled diagram explain the crabbing of wool.
- c) Discuss the changes brought by mercerisation in the fibre structure.
- d) Compare between sodium hypochlorite bleaching and hydrogen perorxide bleaching (four points).
- e) Explain the caustisation process give its significances.

4. Attempt any <u>THREE</u> of the following:

- a) Write the procedure for Bio-Scouring of cotton fabric. State advantages of it.
- b) Write the precautions to be taken during the scouring of knitted cotton fabrics. Also write the process of scouring knitted fabrics
- c) Explain the factors affecting efficiency of mercerisation of cotton fabric.
- d) Describe the process for bleaching polyester fabric using sodium chlorite. Also state disadvantages of the process.
- e) With a neat labelled diagrams, explain the construction and working of yarn mercerising machine.

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

- a) With a neat labelled diagram explain the procedure of singeing 100% cotton fabric on a singeing machines. Enlist the precautions to be taken during singeing.
- b) Write the procedure of enzymatic desizing of cotton fabrics. Also list the advantages of enzyme desizing.
- c) Explain two methods for Degumming of silk fabric.

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

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- a) With a neat labelled diagram explain the bleaching of cotton using hydrogen provided by
 - (i) Batch wise method
 - (ii) Continuous method
- b) With a neat sketch explain the features of a padless-chainless mercerising machine.
- c) With a neat labelled diagram explain the construction and working of a vertical kier used for scouring of 100% cotton poplin.