## 17569

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3	Ho	ours /	100	) Marks	S Sea	t N	Jo.[							_
-	Instru	ections –	(1)	All Question	ns are Con	ıpul	sory	<i>)</i> .						
			(2)	Answer each	h next mai	n Ç	)ues	tion	on a	ı ne	w j	page	e.	
			(3)	Illustrate yo necessary.	ur answers	wi	th r	neat	sketc	hes	wh	ere	ver	
			(4)	Figures to t	he right in	dica	ate 1	full 1	mark	S.				
			(5)	Assume suit	able data,	if r	nece	ssary	7.					
			(6)	Use of Non Calculator is			e El	ectro	onic I	Pocl	cet			
			(7)	Mobile Photocommunicate Examination	ion device		-							
												ľ	Mark	KS
1.		Attempt	any	FIVE of th	e followin	g:							2	0
	a)	List the special fe		us projectile es.	s used in	shut	tlele	ess lo	oom	wit	h			
	b)	Classify	the F	Rapier looms										
	c)	State the	func	tion of tand	em nozzel	S.								
	d)	State the	obje	cts of weft	accumulato	r.								
	e)	Classify	the c	lassification	of nonwo	en.								
	f)	State any	eigl	nt application	n of nonw	over	n fa	bric.						

g) State the importance of geo-textiles in filtration.

h) Classify the geo-textiles along with their functions.

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		Ma	arks
2.		Attempt any TWO of the following:	16
	a)	List down and explain merits and demerits of shuttle looms.	
	b)	Describe picking cycle and projectile loom.	
	c)	Explain various types of geo-textiles.	
3.		Attempt any <u>TWO</u> of the following:	16
	a)	Describe cycle operation of weft insertion on flexible rapier loom.	
	b)	Describe with neat sketch working of mono-jet on air jet loom.	
	c)	Compare any eight points between air jet and water jet.	
4.		Attempt any TWO of the following:	16
	a)	Explain the precautions to be taken in warping, sizing and drawing in department for shuttle less looms.	
	b)	List down various methods of web preparation. Explain any one method of web preparation.	
	c)	Describe mechanical bonding (needling technique) with the help of neat diagram. Also explain the factors affecting properties of needle punched non-woven.	
5.		Attempt any TWO of the following:	16
	a)	Describe various dry methods of web preparations being used for manufacturing non-wovens.	
	b)	Explain any eight uses of geo-textiles.	
	c)	State the salient features of Rapier loom. Also explain the Bi-phase rapier weaving machine.	
6.		Attempt any TWO of the following:	16
	a)	Describe cycle operation on flexible rapier loom.	
	b)	Draw diagrams and describe different types of selvedges used on shuttleless looms.	
	c)	Explain air quality requirement air compressor and distribution system of air jet loom.	