## 17223

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3	Ho	ours	/ 10	0	Marks	Seat	No.								
	Instru	uctions	- (1)	) A	Il Questions	are Comp	oulsor	у.							
			(2)	) A	nswer each	next main	Que	stio	n c	on a	a ne	ew	pag	e.	
			(3)	) Il n	lustrate your ecessary.	answer w	vith n	neat	sk	etcł	nes	wh	erev	ver	
			(4)	) F	igures to the	right ind	icate	ful	l m	nark	s.				
			(5)	) M C E	fobile Phone ommunicatio xamination H	, Pager ar n devices Iall.	nd ang are i	y o not	the pei	r E rmis	lect ssibl	ron le i	ic in		
														Ma	rks
1.		Ansv	ver any	F]	<b><u>IVE</u></b> of the	following:									20
	a)	Defir	ne:												
		(i)	Degree	of	polymerisati	on,									
		(ii)	Yarn												
		(iii)	Fabric												
		(iv)	Filame	nt											
	b)	Write	e charac	eteri	stics of 'me	somorphou	is' reg	gior	1.						
	c)	(i)	Define	OX	ycellulose										1
		(ii)	Describ	be a	a chemical m	nethod of	its de	etec	tion	1.					3
	d)	Write	e physic	cal	properties of	cotton.									
	e)	What	t are 'p	oly	nosic fibres'	2									
	f)	State	physic	al p	properties of	cellulose	triace	etate	<b>.</b>						
	g)	Write	e physic	al	properties of	silk.									

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2.		Ans	wer any <u>TWO</u> of the following:	16		
	a)	Expl	ain with examples, 'classification' of textile fibres.			
	b)	With rayo	n the help of a flow-sheet, describe manufacture of vinn.	iscose		
	c)	Desc	cribe, chemical composition of :			
		(i)	Silk,			
		(ii)	Wool and explain their various applications also			
3.		Ans	wer any <u>TWO</u> of the following:	16		
	a)	Desc	cribe essential and desirable properties of textile fibres.			
	b)	(i)	Outline manufacturing process of 'Lyocell fibre'.	5		
		(ii)	State application of the Lyocell fibres.	3		
	c)	(i)	Why is 'degumming' of silk done?	2		
		(ii)	Describe any one process of degumming of silk.	6		
4.		Ans	wer any <u>TWO</u> of the following:	16		
	a)	(i)	Draw and explain the morphological structure of cotto fibre.	on 5		
		(ii)	Name varieties of cotton fibres. Describe any one.	3		
	b)	(i)	Explain the term 'morphology'.	2		
		(ii)	Describe morphological structure of wool.	6		
	c)	(i)	Explain morphological structure of jute.	5		
		(ii)	Explain cultivation of flax.	3		

		Ma	rks			
5.	Answer any <u>TWO</u> of the following:					
	a)	(i) Describe crystalline and amorphous region of fibres.	6			
		(ii) State their 'importance'.	2			
	b)	<ul><li>(i) Draw and explain representative structure of 'cellulose'.</li><li>Name the type of group present and the repeating unit.</li></ul>	3			
		(ii) Describe chemistry of damage to cellulose.	5			
	c)	(i) Describe methylene chloride process of cellulose acetate manufacture.	6			
		(ii) On what does, the 'economy' of the process, depend?	2			
6.		Answer any <u>FOUR</u> of the following:	16			
a)		Compare : Dry spinning and Wet spinning.				
	b)	Describe 'cultivation' of cotton.				
	c)	What are 'high wet modulus' fibres? Give two examples.				
	d)	State applications of cellulose acetate.				
	e)	Describe 'grading' of wool fibres.				
	f)	Write physical properties and uses of banana fibre.				