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	Instructions – (1)				All Questions are Compulsory.										
				(2)	Answer each	next main	Ques	stion	or	na	nev	v pag	ge.		
				(3)	Illustrate your necessary.	answers	with 1	neat	sk	etche	es	wher	ever		
				(4)	Figures to the	e right ind	icate	full	ma	rks.					
				(5)	Assume suitable data, if necessary.										
				(6)	Use of Non-p Calculator is	programmat permissible	ole El e.	lectro	oni	c Po	ock	et			
				(7)	Mobile Phone Communication	e, Pager an on devices Hall.	d any are n	y oth ot p	ner berr	Eleo nissi	etro ble	onic e in			
				(8)	Use of Steam is permitted.	tables, lo	garith	mic,	М	lollie	er's	char	t		
													Ma	rks	
1.		Atter	npt	any	<u>FIVE</u> of the	following	:							10	
	a)) Define condensation polymerisation and give one example								le of	it.				
	b)	Enlist	t ar	ny fo	ur physical pro	operties of	visco	ose r	ayo	on.					
	c)	Draw the chemical structures of the monomer raw mater used for the manufacturing of Dacron.								rials					
	d)	Defin polye	ne ' ester	Polye	ester microfibre e point).	crofibre' and compare with conventional									
	e)	Sugg of N	est ylor	the r n 66	names of mono and draw its	omers used structures.	in th	ne m	nan	ufac	tur	ing			
	f)	Enlist	t ar	ny fo	ur chemical pi	operties of	f acry	lic f	ibr	es.					
	g)	Enlist	t ar	ny tw	o monomers u	used in the	man	ufac	turi	ing o	of				
		polyo	olefi	n fib	res.								Р.	Г.О.	

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

- a) Compare the effect of spinning speed on the fibre structure formation of LOY, MOY, POY, HOY, FDY by melt spinning technique.
- b) Justify with a mat process flow chart, the functions of various additives uses in the manufacturing of Lyocell fibres.
- c) Demonstrate with a neat flow chart, the relevant spinning parameters for PET by melt spinning techniques.

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

- a) Justify the selection of additives and modifications in manufacturing process for developing low pilling and flame retardant variant if Nylon 66.
- b) Elaborate and justify the common array used in the manufacturing of modified acrylic fibres to make it cationic and anionic dycable.
- c) Elaborate the different precursors used in the manufacturing of carbon fibres. Also explain the conditions employed during the manufacturing of same.