1	6117	7											
3	Ho	urs	/ 100) Marks	Seat	No.							
	Instru	ctions	` ′	All Questions Illustrate your necessary.	•			sk	etcl	nes	wł	nere	ever
			` ′	Figures to the Assume suitab	· ·				arks	S.			
			` ′	Use of Non-p Calculator is	rogrammat	ole E			c F	ocl	ket		
			(6)	Mobile Phone Communicatio Examination F	n devices								
													Marks
1.	a)	Atte	mpt any	SIX of the fo	ollowing:								12
		(i)	Define f	ermentation.									
		(ii)	List four	r sources of co	ellulose pu	lp.							
		(iii)	Define s	aponification v	value and	ioden	va	lue	of	oil			
		(iv)	What are	e different met	thods for 1	manu	factı	ırir	ıg (of p	ohei	nol.	
		(v)	State an	y two uses of	PVC and	poly	este	r e	ach				
		(vi)	Write na	ames of any fo	our constitu	uents	of	pai	nts.				
		(vii)	What is	vinegar? State	e its uses.								
	b)	Atte	mpt any	TWO of the	following:	}							8
		(i)	Draw flo	ow diagram fo	r manufact	ture (of e	thy	l al	coł	nol	fro	m
		(ii)	Draw la	belled block d	iagram for	proc	lucti	on	of	a j	pair	nt.	
		(iii)	What is	a polymer? D	iscuss the	mec	hani	sm	of				

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17427 [2]

		<u>, </u>	Marks
2.		Attempt any FOUR of the following:	16
	a)	Draw and describe manufacturing process of acetic acid from acetaldehyde.	
	b)	Give classification of plastics.	
	c)	Draw neat labelled flow diagram of manufacturing of phenol from cumene.	
	d)	Write names and uses of any four types of paper.	
	e)	Compare the sulphate and sulphite process for manufacturing of pulp.	of
	f)	Explain the cleansing action of soap.	
3.		Attempt any FOUR of the following:	16
	a)	Define soap. How is soap manufactured by "Hot process"?	
	b)	How are oils converted into fats? Write reaction involved.	
	c)	Draw Ziegler process for manufacture of polyethylene.	
	d)	Describe in detail and flow sheet for extraction of oil.	
	e)	Write the names of any four constituents of paint.	
	f)	Describe manufacture of PVC by emulsion polymerization.	
4.		Attempt any FOUR of the following:	16
	a)	Differentiate between varnish and lacquers.	
	b)	Describe manufacture of fats by hydrogenation of oils.	
	c)	List different types of paints and state one application of each	1.
	d)	Define saponification value and free acid value.	
	e)	Give chemical reactions for manufacturing of phenol from Loluene oxidation process.	
	f)	Give the manufacturing process of thermocol.	

[3]

5.		Attempt any <u>TWO</u> of the following:	16
	a)	Draw neat flow diagram and explain the process for manufacturing of butanol.	
	b)	Describe manufacturing process of detergent with a neat flow sheet.	
	c)	With a flow sheet explain the manufacture of phenol by chlorobenzene - caustic hydrolysis.	
6.		Attempt any <u>TWO</u> of the following:	16
	a)	Draw neat labelled flow diagram of manufacturing phenol via	

Marks

b) Explain manufacturing process of paper from pulp.

benzene sulfonate process.

c) Draw block diagram for manufacture of ethylene glycol from ethylene and oxygen and explain the process.