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P.T.O.

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Instructions:	. ,	estions are com					
	 (2) Answer each next main question on a new page. (3) Illustrate your answers with neat sketches wherever necessary. (4) Use of Non-programmable Electronic Pocket Calculator is permissible. (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall. 						
	(6) Use of	Steam tables, i	logarithn	nic, Mollier's	chart is	permittea	<i>l</i> .
						I	Mark
1. A) Attempt any six:							12
a) What are the n	nethods of pr	roduction of pul	p? Give	two importar	nt chemica	al process	es. 2
b) What is the ca		•					2
c) State physical			,	ny two each).			2
d) What is methy	-	-	sition.				2
e) What are the c	onditions for	r good soap?					2
f) Define:							
i) Saponificat							_
ii) Iodine valu							2
g) What is black	liquor ?						2
B) Attempt any two:	:						8
a) Give classification of plastic and write two examples of each type.					2		
b) What are basic raw material required for manufacturing of paints?					4		
c) Describe proc	ess of hydrog	genation of oil.					4
2. Attempt any four:							16
a) What are the diffe	rent methods	of production of	of alcohol	1?			4
b) Describe the manufacturing process of oil varnishes.						4	
c) Compare the sulpl	nate and sulpl	hite process of p	ulp manı	ufacturing.			4
d) Draw flow sheet for	or manufactu	ring of phenol b	y chlorol	benzene-NaC	ЭН.		Δ

e) Draw flow sheet for manufacturing of polyethylene by high pressure process.

f) Compare hot and cold process of soap manufacturing.

	N	Aarks		
3.	Attempt any four:	16		
	a) Explain the principle of production of Ethyl acetate with chemical reaction.	4		
	b) Draw the manufacturing flow sheet of paint.	4		
	c) Describe the bleaching of pulp.	4		
	d) Draw flow diagram for manufacture of phenol by toluene oxidation process.	4		
	e) Give raw material required for manufacturing of Rayon and its uses.	4		
	f) Give classification of polymers with examples.	4		
4.	Attempt any four:	16		
	a) Give manufacturing process of phenol.	4		
	b) What are the various uses of vanishes?	4		
	c) Write short note on fermentation.	4		
	d) Differentiate between soap and detergents.	4		
	e) Explain the refining process of oil.	4		
	f) What is polymer? Discuss the mechanism of polymerisation.	4		
5.	Attempt any two:	16		
	a) Describe the manufacture of butanol from molasses with neat flow sheet.	8		
	b) Describe the manufacturing process of detergent.	8		
	c) Explain with flow diagram manufacturing of phenol by cumene peroxide process.	8		
6.	Attempt any two:			
	a) With neat flow sheet explain the manufacturing process of Viscus Rayon.	8		
	b) Describe manufacturing process of ethylene glycol from ethylene.	8		
	c) Draw neat flow diagram and explain production of phenol by benzene sulfonate process	s. 8		
