# 17427

	5162 Hou	rs /	100 Marks	Seat No.								
Ins	tructio	ns :	(1) All Questions are <i>co</i>	mpulsory.								
			(2) Answer each next m	ain Question o	n a n	ew p	age.					
			(3) Illustrate your answe	ers with neat sk	etch	es wl	herev	ver n	ecess	sary.		
			(4) Figure to the right in	dicate full mar	ks.							
											Μ	arks
1.	(A)	Attempt any SIX :								12		
		(a)	State different methods	for production	of pı	ılp.						
		(b)	Give two examples, eac	-	-	-	ole oi	1.				
		(c)	State the names of en	zymes used in	mai	nufac	cturir	ıg	of al	coho	ol fr	om
			molasses.	-				-				
		(d)	What is Vinegar ?									
		(e)	Define saponification va	alue of oil.								
		(f)	State importance of Aci	d value of oil.								
		(g)	What is 'GSM' in case of	of paper ?								
	<b>(B)</b>	Attempt any TWO :									8	
		(a)	Explain the types of pol	ymerization wi	th ex	amp	les.					
		(b)	Give constituents of pair	nt.								
		(c)	Draw neat sketch for hy	drogenation of	oil.							
2.	Atte	tempt any FOUR :										16
	(a)	Describe manufacturing of acetic acid from acetaldehyde.										
	(b)	) Explain classification of paint.										
	(c)	Draw a flowsheet for manufacturing of paper from pulp.										
	(d)	List the processes for manufacturing of phenol.										
	(e)	Exp	lain with the help of react	ions only, man	ufact	uring	g of p	oolye	ethyl	ene.		
	$(\mathbf{f})$	Give the uses of hyproducts obtained in manufacturing of oil										

(f) Give the uses of byproducts obtained in manufacturing of oil.

#### **3.** Attempt any FOUR :

- (a) Describe manufacturing of butanol.
- (b) What are Laquers ? Give two industrial applications.
- (c) List various types of papers.
- (d) State raw materials used in manufacturing of phenol by Toluene oxidation process and cumene peroxidation process.
- (e) Describe manufacturing of PVC.
- (f) Draw a flowsheet for manufacturing of polyester.

### 4. Attempt any FOUR :

- (a) Give the reactions involved in manufacturing of polystyrene.
- (b) State the types of varnishes and give its uses.
- (c) Give the reactions involved in manufacturing of alcohol from molasses.
- (d) Explain the cleansing action of soap.
- (e) Differentiate between soaps and detergents (any four points).
- (f) Draw the flowsheet for manufacturing of polyethylene by Ziegler process.

## 5. Attempt any TWO :

- (a) Explain with the help of flowsheet manufacturing of ethanol.
- (b) Describe extraction of oil from seeds.
- (c) With a neat flowsheet explain manufacturing of phenol by cumene peroxidation process.

### 6. Attempt any TWO :

- (a) Describe manufacturing of pulp by sulphate (kraft) process with flow diagram.
- (b) Describe in detail manufacturing of polystyrene with flowsheet.
- (c) With a flowsheet explain manufacturing of phenol by Toluene oxidation process.

16

16