|--|

**Total number of printed pages - 02** 

B.TECH PCCH4202

## 3<sup>rd</sup> Semester Back Examination 2016 - 17 CHEMICAL PROCESS TECHNOLOGY

**BRANCH**: Chemical

Time: 3 Hours
Max Marks: 70

Question Code: Y780

Answer Question No. 1 which is compulsory and any FIVE from the rest.

The figures in the right-hand margin indicate marks.

Answer all parts of a question at a place.

210		210	210	210	210	210	21
1.		Answer the follo				2 x 10	
	(a)	Discuss the mer manufacture of ca		of diaphragm	process for		
	(b)	Write the advant sulphuric acid ma		antages of V <sub>2</sub> O	5 catalyst in		
	(c)	What are the ra	w materials requ		ic soda and		
210	(d)	chlorine manufact What are oils and	•	biocess :	210	210	21
	(e)	What are the by-pi		industries?			
	(f)	What are the raw		r paper manufac	cture?		
	(g)	What is molasses					
	(h)	Write the propertie		محمد منا اممارات	footuus of		
	(i)	Mention the che ethanol.	micai reactions i	nvoived in ma	nuiacture of		
210	<b>(j)</b>	Write the propertie	es and uses of PV	C.10	210	210	21
2.		Discuss in detail			•		
		Process" with a n disadvantages of		hat are the adv	antages and	7+3	
3.		With a neat shee					
210		manufacture of production of pulp	•			210	2′
		in sulfate pulp pro		Chemical reacti	ons involved	6+4	
4.	(a)	Discuss about the	e raw materials fo	r the soap prod	uction. Write		
••	(~)	the chemical read					
		route for getting s	ynthetic glycerine	•		06	_
210	(b)	Explain the proce	ss of hydrogenatio	on oil.	210	<b>04</b>	age,
							Ра

10	5. (a) (b)		Write the major engineering problems in the manufacture of ethanol.  What are 2   Page pigments? Classify them. Describe Titanium Dioxide pigment.				04 <sup>210</sup> 06	210
	6.			er? Describe the		e of phenol-	1+9	
10	7. 210 <b>8.</b>	(a) (b) (c) (d)	Discuss in detail sheet.  Write short note Hydrochloric acid Dyes Dextrin Polyethylene		e of sugar witl	n a neat flow	10 210 5 x 2	210
10	210		210	210	210	210	210	210
10	210		210	210	210	210	210	210
10	210		210	210	210	210	210	210
10	210		210	210	210	210	210	210
10	210		210	210	210	210	210	Page 2