nan 1	icke	t Number:						C-1-N- 11014	0
	T/A	SAVICO	HIECH	COFE		NIE	PD	Code No.: 11014	U
	V A							ING (Autonomous), HYDERABAD Examinations, December-2017	
							-	Chemistry Il Branches)	
Time	e: 3	hours	ta. A	. 477			n	Max. Marks: 70	
		NO	ie. Answei					rt-A and any FIVE from Part-B	
1.	Cu	accept conve	tree moth			,		= 20 Marks)	
2.			two metho						
2.								g the dissolved salts $Ca(HCO_3)_2 = 16.2 \text{mg/L}$, $Ig(HCO_3)_2 = 14.2 \text{ mg/L}$.	
3.								aple of each.	
4.	Li	st the adva	ntages of l	biodegra	adable	poly	me	rs.	
5.	W	hat are che	emical fuel	ls? Give	two e	xam	ples	S.	
6.	Di	stinguish b	etween O	ctane an	id Ceta	ane n	ıum	ber.	
7.	Al	uminium (occupies h	igher po	sition	in th	e E	CS, but suffers lesser corrosion. Justify.	
8.	De	efine galva	nic series	and how	v it is l	nelpf	ul i	n predicting the intensity of corrosion.	
9.	W	hat are con	rosion inh	ibitors?	Give	two 6	exa	mples.	
10	. W	hat is the	ole of pign	ment and	d dryii	ng oi	l in	a paint?	
				P	art-B	(5 ×	10	= 50 Marks)	
11	. a)	What are	the combin	nations o	of alka	lis in	wa	ter? How will you determine it experimentally?	[6]
	b)	water san	ple after b	ooiling	requir	ed 1	2	0.01N EDTA solution, whereas 100 ml of the ml of the same EDTA solution. Calculate of water sample.	[4]
12	2. a)	Give the j		n and en	gineer ii) Sil	_	-	lications of the following polymers.	[6]
	b)	Different	iate thermo	plastics	s and t	herm	ose	etting resins.	[4]
13	. a)	What is U	Iltimate an	alysis o	f coal	? Giv	e it	ts importance in deciding the quality of coal.	[6]
	b)							value of coal having the following composition: ne latent heat of steam = 587 Cal/gm.	[4]
14	1. a)	What is E	Electrocher	nical co	rrosio	n? E	xpl	ain Galvanic Corrosion with suitable example.	[5]
	b)	Discuss t		, which	influ	ence	the	rate of corrosion with reference to nature of	[5]
15	5. a)	What are	metallic c	oatings	? Desc	ribe	the	method of Galvanization of iron.	[6]
	b) Write a n	ote on Ele	ctroplat	ing an	d me	ntic	on its industrial applications.	[4]
16	6. a	State the	principle a	and meth	nod for	r sof	ten	ing of hard water by Reverse Osmosis.	[6]
	b) What is v	ulcanizati	on of ru	bber?	Give	its	advantages over raw rubber.	[4]
17	7. A	nswer any	two of the	follow	ing:				
		a) Desc	cribe Fixed	Bed Ca	atalytic	c Cra	icki	ng method with a well labelled diagram.	[5]

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b) Mechanism of corrosion of iron under a drop of acid.

c) Cathodic protection.

[5] [5]