Göde No: 131AG K1 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech I Year I Semester Examinations, December - 2016

*			RING CHEMIST		A Property of the Control of the Con	
	Times 2 house	(Common to El	EE, ECE, CSE, E			
; ;***·	Time: 3 hours	:***: :****	**** _{* *} *** _*	····.	Max. Marks: 75	***
* ***	Note: This question paper	contains two par	ts A and B.			*
404488 Juli	Part A is compulso	ory which carrie	es 25 marks. An	swer all questic	ons in Part A.	
	Part B consists of	5 Units. Answe	r any one full qu	estion from each	ch unit. Each	
	question carries 10 n	narks and may ha	ave a, b, c as sub c	luestions.		
****	AC AC		ART- A			# 3 0 6 7 4 9 7 7 4 7
	1 a) What are the reminus		0.00		(25 Marks)	
	1.a) What are the variousb) List out the various s	units of hardnes	s? Give the relation	on between them	• •	
4	c) What is standard elec	etrode notential?	the sewage treatm	ent.	[3]	
· ····	d)Explain the functioni	ng of the dry cel	l with chemical re	actions :	[2] [3]	
	ë)::Define fibersiand giv	e two examples.			:[2]	
	f) Give the mechanism	of free radical po	olymerization of V	inyl chloride.	[3]	
	g) Give the classification	n of fuels with ex	camples.		[2]	
	h) Define HCV and LCi) What is meant by refu	V of a fuel and g	ive their inter-rela	tionship.	[3]	
, x	i) What is meant by refine viscosity, Flas	h point and Pour	example each for	acidic and basic		
N N D T S			point of a fuorica	ine	[3]	1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1
		10 mm	PART-B	4.		, ,
•					(50 Marks)	
	2.a) Define scales and sluc	loes What are th	e causes effects a	and preventive m	othed of these?	
* * * * * * * * * * * * * * * * * * * *	b): Estimate the amount of	of hardness of wa	ter by:complexon	ma preventive in netric method	:::::::::[5+5]	****, **
# P.221	FOR FLIDE		OR			
	3.a) Write a short note each water.	th on Calgon cor	nditioning and Pho	ospate condition	ing of boiler feed	
	b) In the determination	of hardness of	water by complex	cometry, 20 ml	of standard hard	
, , , , ,	water containing 0.1 g	g of CaCO3 per 1	.00 ml consumed	15 ml of EDTA	solution. 100 ml	
	of hard water sample	consumed 12 ml	of EDTA colutio			
	i i i i i i i i i i i i i i i i i i i		or Elect A Solutio	n. After boiling	and filtering, the	
* ***	same water sample c	onsumed 6 ml	of EDTA solution	n. After boiling on. Calculate the	e temporary and	
	same water sample of permanent hardness of	onsumed 6 ml	of EDTA solution	n. After boiling on. Calculate the	and filtering, the e temporary and [5+5]	
	same water sample of permanent hardness of	onsumed 6 ml water.	of EDTA ^{···} solutic	on. Calculate the	e temporary and	
	same water sample of permanent hardness of 4.a) What is an electrocher	onsumed 6 ml water. nical series? Wh	of EDTA"solution	on. Calculate the	e temporary and [5+5]	FI
	same water sample of permanent hardness of	onsumed 6 ml water. nical series? Wh ference electrode	of EDTA solution at are its applications? Give the const	on. Calculate the	e temporary and [5+5]	AL.
	same water sample of permanent hardness of 4.a) What is an electrocher b) What is meant my reliminated electrode.	onsumed 6 ml water. nical series? Wh erence electrode	at are its applications? Give the const	on. Calculate the	king of Calomel	AC AC
	same water sample of permanent hardness of 4.a) What is an electrocher b)What is meant my referred electrode	onsumed 6 ml water. nical series? Wh erence electrode	at are its applications? Give the const	on. Calculate the	king of Calomel	AC AC
	same water sample of permanent hardness of 4.a) What is an electrocher b)What is meant my refine electrode	onsumed 6 ml water. nical series? Wh erence electrode of batteries and	at are its applications? Give the const	on. Calculate the	king of Calomel [5+5] orking of Ni-Cd	AC.
· · · · · ·	same water sample of permanent hardness of 4.a) What is an electrocher b)What is meant my refine electrode	onsumed 6 ml water. nical series? Wh erence electrode of batteries and a short note on r	at are its applications of EDTA solution at are its applications. Give the constitution of the constituti	on. Calculate the	king of Calomel	
	same water sample of permanent hardness of 4.a) What is an electrocher b)What is meant my refine electrode	onsumed 6 ml water. nical series? Wh ference electrode of batteries and a short note on r	at are its applications? Give the const	on. Calculate the	king of Calomel [5+5] orking of Ni-Cd	

		b): "Differentiate thermo plastics from thermo set plastics with suitable examples. [5+5] OR								
	b) Wha biodo 8.a) Wha b) Write	t are bio degradable polymers in the cracking? How each of the case of the cas	ers with suitable	outyl rubber are press. examples. ained by moving and LPG. OR	advantages and	d applications of [5+5] [5+5] acking? [5+5]				
IE.	8 828	RK cal/kg.	of fuel having of by proximate an			calorific value i	s iii			
	ceme	ent. What are their	r advantages?			and water proo				
	point	and pour point. initial are composites? ain about Refra	Give the classifi	OR Cation and advar	ntages of compos	[5+5]	3 V 4 2 P X P 4 X Y 6 P 9 V			
	FL	PG	AG	FI	ĦG	AG	**************************************			
	$\Phi_{k} = 1$		0	oOoo						
		AC	AG	PG		MG	A			
	AG	MG		AG		FC				
	HG	AG	AG	FIG	AG	AC				
	FÜ	AG .	AG	AG	A.C.	AG	5 # P N			