Class: 12

Register	
Number	

		SECO	<u>UD</u>	MID TER	M	TEST - 2	202	<u> 44</u>	
Ti	me Al	llowed : 1.30 Hours]		CHEMI	IST	RY	ų.	[Max. Marks: 5	0 .
				PART	r-1				5
	(i)	Answer all the	ques	tions.					
	(ii)	Choose the cor	rect	answer.				10x1=	10
1.	Ox	idation state of Iron	and	the charge on the I	igan	d NO in [Fe (H ₂ O)	NO	SO₄are	
	a)	+2 and 0 respect	tively	* * =	b)	+3 and 0 respe	ctivel	У	
	c)	+3 and -1 respec	tively		d)	+1 and +1 resp	ective	ely	
2.	Wh	ich type of isomeris	sm is	exhibited by [Pt (NI	H ₃) ₂ (;]?			
	a)	Coordination ison	nerisi	m	b)	Linkage isomeri	sm		
	c)	Optical isomerism	n		d)	Geometrical ison	meris	m	
3.	Wh	ich of the following	is pa	aramagnetic in natu	re?				
	a)	$[Zn(NH_3)_4]^{2+}$	b)	[Co(NH ₃) ₆] ³⁺	c)	[Ni(H ₂ O) ₆] ²	d)	[Ni(CN) ₄] ²⁻	
4.	Dui	ring electrolysis o	of mo	lten sodium chlor	ide,	the time require	d to	produce 0.1mole	of
	chl	orine gas using a d	currer	nt of 3A is	4	1111 4			
	a)	55 minutes	b)	107.2 minutes	c)	220 minutes	d)	330 minutes	
<u>5.</u>	Whi	ich of the following	elec	trolytic solution has	the	east specific cond	luctar	nce	
	a)	2N	b)	0.002N	c)	0.02N	d)	0.2N	
6.	Whi	ch electrolyte is us	ed in	Leclanche cell?				t	
	a)	ZnSO ₄ + CUSO ₄	b)	NH ₄ CI + ZnCl ₂	c)	NaCI + CuSO ₄	d)	MnSO ₄ + MnO ₂	
7.	Whe	en aniline reacts wi	th ac	etic anhydride the p	orodu	ct formed is	227		*
	a)	o - aminoacetoph	enon	е	b)	m-aminoacetoph	enor	ne	
	c)	p - aminoacetoph	enon	e	d)	acetanilide			•
В.	Whi	ch of the following	amin	es does not underg	o ac	etylation?			
	a)	t - butylamine	b)	Ethylamine	c)	Diethylamine	d)	Triethylamine	
9.	Whi	ch of the following	reage	ent can be used to	conv	ert nitrobenzene t	o ani	iline	
	a)	Sn/HCI	b)	Zn Hg / NaOH	c)	Zn/NH ₄ Cl	d)	All of these	
0.	Whic	h one given below	is a ı	non-reducing sugar	?	. 2 900			
	a)	Glucose	b)	Sucrose	c)	Maltose	d)	Lactose.	
								VIV (84/19/01-/	•

Knidly Send Me Question & Answer Keys to Us. padasalate ginail.ciom

PART-II

II. Answer any 5 questions. Question No. 18 is compulsory

5x2=10

- Define Ligands.
- 12. What is Crystal field stabilization energy (CFSE) ?
- 13. State Kohlrausch Law.
- 14. Define equivalent Conductance.
- 15. Write a note on Diazotisation reaction?
- 16. Write the Zwitter ion structure of alanine.
- How are vitamins classified.

18. Identify A and B CH₃NO₂ Sn/HCI A

CH₃NO₂ Zn/NaOH

PART-III

III. Answer any 6 questions. Question No. 26 is compulsory

5x3=15

- What are Hydrate Isomers? Explain with an example.
- 20. State Faraday's Laws of electrolysis.
- 21. Write a note on sacrificial protection.
- 22. What is Chloropicrin? How is it prepared and its use?
- 23. Give short notes on Gabriel phthalimides synthesis?
- Difference between DNA and RNA.
- 25. Write a short note on peptide bond.
- 26. Write the IUPAC name, oxidation number, coordination number, magnetic property for K₄[Mn(CN)₆]

PART - IV

IV. Answer ALL the questions.

3x5=15

- 27. a) Write the postulates of Werner's theory. (OR)
 - b) Based on VB theory explain why [Cr(NH₃)₆]³⁺ is paramagnetic, while [Ni(CN)₄]²Is diamagnetic.
- a) Derive an expression for Nernst equation. (OR)
 - b) Describe the construction of Daniel cell. Write the cell reaction.
- How will you distinguish between primary secondary and tertiary Aliphatic Amines.

(OR)

b) Explain the Structure of Glucose.