Class: 12

Register			
Number		1	1

FIRST REVISION

Time Allowed: 3.00 Hours CHEMI	TAN	YON, JANUAF	RY - 2025			
CHEMISTRY		RY	[Max. Marks: 70			
Note: (I) Answer all the questions.	-					
(ii) Choose the most suitable answer	· tron	. 41	15x1=15			
theoption code and the correspondin	11011	n the given four a	Iternatives and write			
1. Which of the metal is extracted by Hall - Hero	y and	Mores 2				
The compound that is used in Nuclear reacto a) metal borides b) metal oxides	rs as	Protective shields	d) Zn			
3. Radon is redipositive and	c)	metal corbonates	d) motel and id			
(a) all-	f	rays.	d) metal carbides			
(b) Reta	1-1		(d) none of the above			
 Which type of isomerism is exhibited by [Pt (Na) Co-ordination isomerism 						
c) optical isomerism	b)	Linkage isomersin	n			
5. Assertion : Monoclinic Sulphus is	d)	Geometrical isom	erism			
5. Assertion: Monoclinic Sulphur is an example Reason: For a monoclinic system a * b	ple of					
Reason : For a monoclinic system a ≠ b a) Both assertion and reason are true and a	≠ C a	and $\alpha = \gamma = 90^{\circ} \beta$	≠ 90°			
b) Both assertion and reason are true. But reach c) Assertion is true but reason is false	13011	s not the correct ex	planation of assertion			
6 form oxocations.	d)	Both assertion and	d reason are false.			
2) 1						
Z. The addition of a catalyst during a share at	c)	Transition metals	d) P block elements			
7. The addition of a catalyst during a chemical rea) Enthalphyb) Activation energy	eactio	n alters which of th	e following quantities.			
a) Enthalphyb) Activation energy8. Most easily liquefiable gas is	c)	Entrophy	d) Internal energy			
a) A			* v			
	c)	He	d) Kr			
The second of the solution is						
	c)	neutral	d) basic			
10. Among the following cells						
l) Leclanche cell	II) 🗼	Nickel cadmium cell				
III) Lead stroage battery	IV)	Mercury cell. Primary cells are				
a) I and IV b) I and III	(C)	III and IV	d) II and III			
11. Which one of the following used in petroleum refining						
a) Silica gel b) animal charcoal		molasses	d) 700lita			
12. Identify the oxidising agent in Swern Oxidation	•,	moladaca	d) Zeolités			
a) Dimethyl Sulfoxide (DMSO)	b)					
c) Siver nitrate		anhydrous zinc chloride				
	d)	Potassium-di-chr	omate			
13. Which one of the following reduces tollen's reas	gent					
a) formic acid b) acetic acid	c)	benzophenone	d) none of these			
14. Secondary nitro alkanes react with nitrous acid to form						
a) red solution b) blue solution		green solution	d\.vallaa.ltt			
15. The monomer used in the preparation of Teflon		green solution	d) yellow solution			
a) albana						
a) ethene b) propene	c)	Butene	d) tetrafluroethylene			
		and the second s				

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PART - II Answer any six questions. Question No. 24 is compulsory, 11. 16. Complete the reaction. B,H, + CH,OH-6x2=1217. How will you convert white phosphorus into red phosphorus? 18. Write any two applications of co-ordination complexes. 19. Write the differences between Lewis acids and Lewis bases. 20. State Faraday's second law of electrolysis. 21. How are colloids purified by ultrafiltration? 22. How will you prepare acetaldehyde from ethyne? 23. Give an example for reducing and non-reducing sugars. 24. Aromatic amines are less basic than ammonia - Justify. PART - III Ш Answer any six questions. Question No. 33 is compulsory. 25. How is potash alum prepared? 6x3 = 1826. Explain lanthanoid contraction? 27. What are hydrate isomers? Explain with example. 28. Write Arrhenius equation and explain the terms involved. 29. Explain common ion effect with an example? 30. How are colloids prepared by electro dispersion method? 31. Explain Gattermann-Koch reaction. 32. Write any three differences between DNA and RNA. 33. Identify, compounds A, B and C. C₆H₅NO₂ Fe/HCI PART - IV Answer all the questions. What are the various steps involved in the extraction of pure metals from their ores? 34. (a) i) Write down the uses of Alum. (OR) Write any one test for Sulphate radical. Why transition elements form co-ordination compounds? 35. (a) Compare Lanthanoids and actinoides. (OR) (b) Write the oxidation state, co-ordination number nature of ligand, magnetic property and electronic configuration in octahedral crystal field for the complex K₄[Mn(CN)₆] Mention the names of Seven types of unit cell. ii) Identify the order for the following reactions. A) Rusting of Iron. B) Radioactive disintegration of 92 U238. C) $2A + 3B \rightarrow \text{product}$; rate = $K[\overline{A}]^{\frac{1}{2}}[B]^{2}$ (OR) (b) Derive an expression for the hydrolysis constant and degree of hydrolysis of salt of strong acid and weak base. (a) Explain Mercury button cell. (OR) What is auto catalysis? (b) i) Mention the various methods of coagulation. (a) (i), What is meant by Trans - esterification? (ii) Write short notes on Diazotisation reaction. (OR) Name the vitamins whose deficiency cause. (b) i) A) Rickets B) Scurvy C) Haemorrhage

What is the mode of the action of antacids? Give an example.