CHEMISTRY Paper 1 1 ½ hours  WAKISSHA  Uganda Certificate of Education  CHEMISTRY  Paper 1 1 hour 30 minutes.  PASTRUCTIONS TO CANDIDATES  This paper consists of 50 objective-type questions.  Answer all questions.  Wou are required to write the correct answer A, B, C or D in the box provided on the right hide of each question.  Use pen and write clearly.	mae		
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1.	<ul> <li>A mixture of iron (II) chloride and sulphur can be separated by</li> <li>A. chemical means.</li> <li>B. use of a magnet.</li> <li>C. by introducing carbon to the mixture.</li> <li>D. fractional crystallization.</li> </ul>	
2.	The solid deposit formed when hydrogen sulphide reacts with sulphuric acid is A. Hydrogen sulphide.  B. Sulphur dioxide.  C. Sulphur.  D. Sulphur trioxide.	
3,	The Oxide of nitrogen that relights a glowing splint is  A. Dinitrogen oxide.  B. Nitrogen monoxide.  C. Nitrogen dioxide.  D. Dinitrogen tetra oxide.	
4.	<ul> <li>The best way to test for the purity of water in the laboratory is by.</li> <li>A. using anhydrous copper (II) sulphate.</li> <li>B. using cobalt (II) chloride paper.</li> <li>C. checking the boiling point.</li> <li>D. carrying out distillation.</li> </ul>	
5,	Which one of the following substances will give an acidic solution when dissolv in water?  A. (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> B. CO <sub>3</sub> C. N <sub>a2</sub> O <sub>2</sub> D. N <sub>2</sub> O	ed
6.	The gas formed when hypochlorous acid is exposed to sunlight is  A. chlorine.  B. hydrogen.  C. hydrogen chloride.  D. Oxygen.	
7.	Washing soda is  A. Anhydrous sodium carbonate.  B. Hydrated sodium carbonate.  C. Anhydrous calcium hydroxide.  D. hydrated sodium chloride.	
8.	Nitrogen monoxide reacts with oxygen according to the equation $2 \text{ NO}_{(g)} + \text{O}_{2 (g)} \longrightarrow 2 \text{ NO}_{2(g)}$ What volume of oxygen that would react with $200 \text{cm}^3$ of nitrogen monoxide?  A. $100 \text{cm}^3$ B. $200 \text{cm}^3$ C. $300 \text{cm}^3$ D. $400 \text{cm}^3$	
).	The atomic number of calcium is 20. The electronic configuration of it ion Ca <sup>2</sup> A. 2, 8 B. 2, 8, 8, 2 C. 2, 8, 8 D. 2, 8, 2	† is

10.	Magnesium ribbon reacts with hydrochloric acid according to the equation. $Mg_{(s)} + 2HCl_{(aq)} \longrightarrow M_g Cl_{2(aq)} + H_{2(g)}$ The mass of magnesium ribbon required to liberate 4.48dm³ of hydrogen at s.t.p is				
	(Mg = 24)	i, I mole of a gas occupies 22.4um at s.c.p)			
	A. (4.4)	$\left(\frac{2}{22.4}\right)g$			
	B. (4.4)	$\frac{8\times22.4}{24}$ ) g			
	C. $\left(\frac{1}{4.4}\right)$	$\left(\frac{24}{8\times22.4}\right)g$			
	D. $\left(\frac{1}{4.4}\right)$	$\left(\frac{22.4}{8\times24}\right)g$	1 16 mil The		
11.	In the Da	aniell cell, Zinc half cell is connected by a salt bridge that acts as the anode in the cell is.	to the copper half-cell. The		
			14 2 5		
		pper	8.3.5		
		pper (ii)sulphate			
		c sulphate			
12.		d is used in making jewelry because			
	A. its s	soft.			
		oes not conduct electricity.	1 1 × 1.5		
	C. it is	s naturally hard.			
		its sparkling appearance.			
13.	Which o	ne of the following compounds is un saturated.	mater borned tears		
	A. C <sub>2</sub>		The American LA		
	B. C <sub>3</sub>	$H_8$	E. Electrovalour		
	C. C <sub>4</sub>	H <sub>8</sub>			
	D. C4	$H_{10}$	miletolyl Cl		
14.	Which o	ne of the following is the major impurity in Haemati	te during the extraction of		
17.	iron.				
	A. Col	ke.	If a value of 0 to 10 to		
		phur dioxide.	na when minerally		
	C. Pho	osphorous.			
		icon dioxide.			
16	When di	lute nitric acid followed by silver nitrate solution we	re added to a certain		
15.	colution	, white precipitate was formed. The solution probably	contained		
	A. Sul	phate irons.	and the same of th		
		rate ions	O Deservoy Control of the		
		phite ions	september 8		
		loride ions			
			ric acid?		
16.		ne of the following gases is NOT dried using sulphur			
	The second second	bon dioxide	A A A A A A A A A A A A A A A A A A A		
	B. Oxy	ygen drogen chloride			
		arogen chioride			
	D. Am	IIIOIIIa	Turn Over		
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17.	which one of the following ions forms a deep blue solution with excess ammonia solution.				
	A. F. 3+				
	B. $Z_n^{2+}$ C. $C_u^{2+}$				
	D. Cr				
18.	A gas which when bubbled through sodium hydioxide for a long time produces a white precipitation is  A. Ammonia  B. sulphur dioxide  C. hydrogen chloride  D. Carbon dioxide				
19.	12.5cm <sup>3</sup> of hydrochloric acid required 25cm <sup>3</sup> of 0.1m sodium hydroxide solution. The molarity of the hydrochloric acid is				
	A. $\frac{25 \times 0.1}{12.5}$				
	- 125 x 0.1				
	B. $\frac{12.5 \times 0.1}{25}$				
	C. $\frac{25}{12.5 \times 0.1}$				
	D. $\frac{25 \times 0.1}{1000}$				
20.	The atomic number of elements W and Y are 2, 8, 1 and 2, 8, 7 respectively. The type of				
	bond formed between W and Y is				
	A. covalent				
	B. Electrovalent C. Dative				
	D. Metallic				
21					
21.	Potassium carbonate reacts with hydrochloric acid according to the following equation. $K_2CO_{3(aq)} + 2HCl_{(aq)} \longrightarrow 2KCl_{(aq)} + CO_{2(g)} + H_2O_{(f)}$ The volume of 0.2M hydrochloric acid required to react completely with 25cm <sup>3</sup> of 0.2M potassium carbonate solution is.				
	potassium carbonate solution is.  A. 20cm <sup>2</sup>				
	B. 40cm <sup>3</sup>				
	C. 50cm <sup>3</sup>				
	D. 30cm <sup>3</sup>				
22.	Which one of the following catalyst is used during the preparation of oxygen gas?  A. Manganese (IV) oxide				
	B. Reduced iron				
	C. Platinised asbestos				
	D. Vanaduim (v) oxide				
23.	Duralumin is an alloy that consist mainly of				
	$A$ . $C_{u}$ , $M_{n}$ , $M_{g}$ and $A$ $L$				
	B. C <sub>u</sub> and AL				
	C. C <sub>u</sub> M <sub>g</sub> AL				
	D. C <sub>u,</sub> AL and Si				

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24.	Chromatography is used to separate a mixture of  A. Iron and sodium chloride.  B. Potassium chloride and sodium carbonate.  C. Pigments of green leaf.  D. Ammonium chloride and sand.
25.	Ammonia reacts with copper (II) oxide to form copper according to the following equation $2NH_{3(g)} + 3CuO_{(s)} \longrightarrow 3H_2O_{(l)} + N_{2(g)} + 3Cu(_{s)}$ The mass of copper (II) oxide required to react with $200cm^3$ of ammonia at s.t.p is $(H = 1, Cu = 64, O = 16, N = 14, one mole of gas occupies 22400cm^3 at s.t.p  A. 1.07g B. 4.28g C. 2.14g D. 8.57g$
26.	Which one of the following salts can be prepared by direct synthesis.  A. CuSO <sub>4</sub> B. ZnCl <sub>2</sub> C. CaCO <sub>3</sub> D. Fe Cl <sub>3</sub>
27.	When 1.2g of Zinc was reacted with $100 \text{cm}^3$ of 2M hydrochloric acid. 13.6KJ of heat was evolved. The molar heat of reaction of zinc metal with the acid is $[Zn = 64]$
	A. $\frac{64 \times 13.6}{1.2}$
	B. \(\frac{1.2 \times 13.6}{64}\)
	C. 13.6 x 1.2
	D. 1.2 x 64
28.	Magnesium reacts with sulphuric acid producing hydrogen according to the equation. $Mg_{(c)} + H_2 SO_4^{(aq)} \longrightarrow Mg SO_4^{(aq)} H_2(g)$ Which of the following graphs represents how the volume of the gas varies with time during the reaction? A. B.
	Vol. of the gas
	C. D.
	Vol. of the gas
	Time Time Turn Over
	Turn Over

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5

29.	A dilute solution of copper (II) sulphate was electrolysed using copper electrode. The product at the cathode is
	A. Oxygen gas.
	B. Copper.
	C. Sulphur.
	D. Hydrogen gas.
30.	Methane burns according to the following equation
	$CH_{4(g)} + 2O_{2(g)} \longrightarrow CO_{2(g)} + 2H_2O_{(g)} \Delta H = 890KJ$
	The volume of methane gas which when burnt will raise the temperature of 320g of water by 8°C is
	[1 mole of gas occupies 22.4dm <sup>3</sup> at s. t. p, specific heat capacity of water is 4.2Jg <sup>-1</sup> °C <sup>-1</sup> ]
	A. $\left(\frac{10.8 \times 22.4}{890}\right)$
	B. $\left(\frac{22.4 \times 890}{10.8}\right)$
	C. $\left(\frac{890}{22.4 \times 10.8}\right)$
	D. (10.8 x 22.4 x 890)
31.	Which one of the following sets of substances is formed when nitric acid is heated?
	A. Nitrogen, oxygen and water.
	B. Nitrogen monoxide, oxygen and water.
	C. Nitrogen dioxide, oxygen and water.
	D. Dinitrogen exide, oxygen and water.
32.	Zinc carbonate was strongly heated in a tube, the colour of the residue was
	A. yellow when hot, brown when cold.
	B. brown when hot, yellow when cold.
	C. yellow when hot, white when cold.
	D. brown when hot, white when cold.
33.	Which one of the following carbonates under goes physical change when heated.
	A. Zinc carbonate
	B. Calcium carbonate
	C. Potassium carbonate
	D. Ammonium carbonate
34.	Sulphuric acid is not suitable for the production of carbon dioxide when calcium carbonate is used because,
	A. its dibasic.
	B. it's a strong oxidizing agent. C. of un steady production of the gas.
	D. it forms a coating that prevents further reaction.
35.	Which one of the following is NOT a property of Graphite? It;
	A. is very hard.
	B. conducts electricity.
	C. is black.
	LI BUTTO IT OF TOTTUTU CHOOD CHOOLUE

/	Cobalt chloride paper paper changes from.  A. Pink to blue.  B. Blue to pink.  C. Yellow to orange.  D. Orange to yellow	is used to test for the presence of water. When water is present the			
37.	Which one of the follows.  A. Combustion of finds.  B. Photosythesis.  C. Electrolysis of w.  D. Heating sodium in	ater.			
38.	The percentage of wat $(Na = 23, C = 12, C = $				
	$A. \qquad \left(\frac{286}{180 \times 100}\right)$				
	B. $\left(\frac{180}{286} \times 100\right)$	granden sa			
	$C = \left(\frac{286 \times 100}{180}\right)$	Augusto and Plant Park Courted and Courted			
	D. $\left(\frac{180}{286 \times 100}\right)$				
39.	(200 × 100)				
40.	Which one of the follow A. C <sub>3</sub> H <sub>6</sub>	ving formulae represents an alkane?			
	$B.$ $C_3H_4$				
	C. $C_4H_{10}$ D. $C_4H_8$	to over gringually 1			
	Each of the following quand side and a reason Select as follows.	uestions 41 – 45 consists of an assertion (statement) on the left on the right hand side.			
		reason are true statements and the reason is the correct			
	explanation of the as	reason are true statements but the reason is not the correct sertion.			
		e but the reason is <b>not</b> a <b>correct</b> statement.			
	Instructions Summarised				
	Assertion	Reason			
	A. True	True(Reason is a correct explanation)			
	n m				

Asse	rtion	Reason
A.	True	True(Reason is a correct explanation)
B.	True	True (reason is not a correct explanation)
C.	True	Incorrect
D.	Incorrect	Correct

Turn Over

41.	Hydrogen chloride gas co	onducts becau	ise hydrogen ch soluble in w	aloride is vater.
42.	The mono oxide of carbo is neutral	on becar	element.	group (IV)
43.	Zinc hydroxide is soluble in excess aqueous ammo		zinc hydron amphoteric	
44.	When aqueous potassium was added to a solution of a yellow precipitate was	of lead(II) ions, beca	lead (II) iod ause soluble in v	
45.	Ethane when bubbled the bromine water, the redd brown colour turns colo	ish urless	euse Ethane is a hydro carb	on.
	In each of the question question carefully and the following.  A. If 1, 2 and 3 only as C. If 2 and 4 only a D. If 4 only is corrected.	then indicate the con y are correct. re correct. re correct.	e of the answers may rrect answer as: A,	v be correct. Read each B, C or D according to
		Instructions Sus		(print) (20)
	A	В	С	D
	1, 2, 3 only	1 and 3 only	2 and 4 only	4 only
46. 47.	Which of the following 1. Ammonium sult 2. Sodium carbona 3. Sodium phosph 4. Calcium nitrate Which of the followin sugar to white sugar. 1. Sulphur dioxide 2. Bleaching pow	phate ate ate g substance(s) is/are o		COSH and to sensition
	2 Bleaching pow 3 Animal charcos 4 Calcium hydro	al		new of the following queen
48.	Nitric acid shows the 1. Turns litmus b 2. Forms salts wi 3. Is a powerful r	following properties lue th bases reducing agent on dioxide with carbo	onates	Contribute districts at a total
49.	<ol> <li>5.5g of carbon</li> <li>10.6g of sulph</li> <li>5.75g of nitrog</li> <li>23g of oxygen</li> </ol>	dioxide ur dioxide gen dioxide gas		of sulphur dioxide at s.t.p.
50	When hydrogen reac Copper (II) ox Hydrogen is r Hydrogen is c Copper is oxi	ride is reduced educed exidized	r (II) oxide	90 ) 309 (237)

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