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545/1

S4 CHEMISTRY

Exam 9

PAPER 1

		DURATIO	ON: 1 hour 30 m	ninutes
1.		substances was f	formed at the anode?	using carbon electrodes. Which D: hydrogen chloride
2.			ls is extracted by election C: sodium	Ç
3.	A: reddish brown B: green precipita	n precipitate with ate with aqueous ate that is solubl	s ammonia e in excess sodium h	
4.	Which of the foll nitrate? A: zinc	owing metals do B: copper	_	from a solution of iron (II) Im D: aluminium
5.	the equation: CuSO4(aq) + Zn	$(s) \longrightarrow Cu(s) +$	+ ZnSO4(aq)	oper (II) sulphate according to Exist zinc is? [Cu = 63.5, Zn = 65.4] D: 25.82
6.	Electrolysis is an A: refining of cru C: synthesis of po	oplied in ide oil	B: vulcanization of i D: manufacture of se	rubber
7.	carbon reacts wit	h		anode decreases in size because
	A: chlorine	B: oxygen		D: sodium hydroxide
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8. The term oxidation means

	A: addition of electric B: addition of hyd C: removal of oxy D: removal of electric B: addition of ele	lrogen to a subsigen from a sub	stance ostance	ee		
9.	During electrolysic respectively. What A: 1				Y and hydrogen a D: 4	are produced
10.	Which one of the solution of potass A: potassium	_	electroly	zed using car		a dilute
11.	A concentrated so turned potassium Solution Y contai A: hydrogen ions C: Ammonium io	iodide solution ned	brown w			
12.	When aqueous an which dissolved in A: Pb ²⁺		nia solut	ion. X contair	ned	s formed
13.	Which one of the with copper A: the anode is m B: the cathode is m C: the anode is m D: the electrolyte	ade of the subs made of copper ade of copper	tance to l			a substance
14.	A dilute solution of product at the post A: oxygen		was	as electrolyze C: hydrogen	ed using carbon el D: potas	
15.	One of the product A: sodium nitrate C: sodium carbon		B: sodiu	brine is um sulphate um hydroxide	<u>.</u>	
16.	A concentrated so electrodes. Which A: copper		lowing su		•	node?
17.	Which one of the A: Aluminium	following meta B: calcium		t displace lea C: silver	d from its salt solu D: zinc	ıtion?

18.	Which one of the following cations would form a yellow precipitate when reacted with aqueous potassium iodide?						
	A: (Ca ²⁺ (aq)	$B: Zn^{2+}(aq)$	C: $Fe^{2+}(aq)$	$D: Pb^{2+}(aq)$		
19.			following nitrates B: NaNO ₃	does not give off brov C: Ca(NO ₃) ₂	vn fumes when heated? D: Ba(NO ₃) ₂		
20.		ich one of the lead carbonate	following salts is	soluble in water? B: sodium carbo	nate		
	C: Barium carbonate			D: calcium carbo	onate		
				SECTION B			
21.			ion for the reactio	ing platinum electroden that took place at the			
	(b) Name one other substance that can be used as electrodes in the electrolysis of acidified water						
22.	elec		minutes and 12 sec		olution between copper		
	(b)	Write the equa	ation for the reacti	on that took place at			
		(ii) cathode					
	(c)	Calculate the ([Cu = 64, 1F =	change in mass at = 96500c]	the anode			

	(d)	State two industrial uses of electrolysis
23.		olten lead (II) bromide was electrolyzed between two carbon electrodes Explain why lead (II) bromide was electrolyzed in the molten state and not in the solid state
	(b)	State what was observed at the (i) anode
		(ii) cathode
	(c)	Write equation for the reaction that took place at the anode
		Calculate the mass of the product formed at the cathode when a current of 2 amps is passed for 2 hours and 30 minutes. [Pb = 207 , Br = 80 , $1F = 96500$ coulombs]

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		•••••						
24.			onvention of an electrochemical cell is shown below +(aq) // Cu ²⁺ (aq)/ Cu(s)					
			two substances that could be used as electrolytes					
		•••••						
	(b)	State v	which one of the electrodes is the anode					
	(c)		equation for the reaction at					
		` /	the anode					
			the cathode					
		• • • • • • • • • • • • • • • • • • • •						
	(d)		equation for the overall reaction					
25.	(a)	a) Define the term electrolysis						
		•••••						
		•••••						
	(b)	A dilu	te solution dilute of sulphuric acid was electrolyzed using copper electrodes in the space below draw a labelled set up for the electrolysis process above					
		(ii)	State what was observed after 5 minutes					
		•••••						
		•••••						

 Explain your observation

<u>END</u>