Chemistry paper 1, 2&3

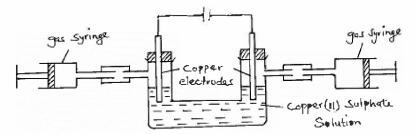
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	GUST, 20	)16							
<b>ME: 2 HOURS</b> The grid below shows part of the periodic table. Use it to answer questions that follow. The letters do not repres									
-	al symbols of the elements.								
	_					г			
		_			S	U	V		
Р	R				T		W		
Q									
(a)	(i)	Which of the eler	nent has t	he lowest ionization	ation energy?			(1mk)	
	(ii)	Explain your ans						(1mk) (1mk)	
(b)	(i)								
(a)	(ii) Explain your answer in b(i) above.							(1mk)	
(c)	Give the electronic configuration of element. (i) S								
	(i) <b>Q</b>							(½mk) (½mk)	
(d)		re the atomic radiu						(2mks)	
(e)		ss number of W is		e down the com	position of its	s nucleus.		(1mk)	
(f) (g)	(i)	ormula of oxides of What is the name		elements found	in the shaded	1 region		(1mk) (1mk)	
.6)	(i) (ii)	Which elements of						(1mk)	
(a)	· · ·	h homologous seri							
	(i)	CH <sub>3</sub> CCH.						(1mk)	
1. \	(ii)	CH <sub>3</sub> CH <sub>2</sub> COOH						(1mk)	
<b>b</b> )	(i)	bber is heated with What name is giv			ire of natural	rubber.		(1mk)	
	(i) (ii)	Why is the proce						(1mk)	
		he scheme given be			tions that foll	low.			
(c)	Study t	U							
(c)	Study ti	6			🗌 Potassiu	m metal	-	7	
(c)	bludy ti	C		Propan-l-ol		m metal $ ightarrow$	Two products		
(c)	Study U	0		Propan-l-ol			Two products		
(c)	Study b			Propan-l-ol		€		]	
(c)	Study 1	Polymer		Propan-I-ol I Propene		€	Two products		
(c)	Study I			I		€			
(c)	Study I	Polymer		I Propene II		€			
(c)	Study I	Polymer		I Propene		€			
(c)	Study I	Polymer		I Propene II	Bromir	€			
(c)	Study b	Polymer		I Propene II Propane	Bromir	€			
(c)	Study I	Polymer		I Propene II Propane	Bromir	€			
(c)	Study I	Polymer C	arbon B	I Propene II Propane	Bromir Bromir	€			
(c)	(i)	Polymer C Hydroc	n for the r	 Propene    Propane ↓/ Crat	Bromir Sking	⇒ he gas ↓ thane	A	(1mk)	
(c)	(i) (ii)	Polymer C Hydroc Write an equation Name process I a	n for the r	I Propene II Propane √ Crae	Bromir Sking	⇒ he gas ↓ thane	A	(1mk)	
(c)	(i) (ii) (iii)	Polymer C Hydroc Write an equation Name process I a Identify the produ	n for the m and II. acts A and	I Propene II Propane √ Crae action between I B.	Bromir Sking	⇒ he gas ↓ thane	A		
(c)	(i) (ii) (iii) (iv)	Polymer C Hydroc Write an equation Name process I a Identify the produ	n for the r ind II. ucts A and st used in	I Propene II Propane √ Crac action between B. Process II.	Bromir Bromir :king :king propan-1-ol	⇒ be gas ↓ thane and potass	A ium metal.	(1mk)	
(c) (d)	(i) (ii) (iii) (iv) (v)	Polymer C Hydroc Write an equation Name process I a Identify the produ	n for the r and II. acts A and st used in ral formul	I         Propene         II         Propane         V Crad         action between         B.         Process II.         a of the repeatin	Bromir Bromir :king :king propan-1-ol	⇒ be gas ↓ thane and potass	A ium metal.		

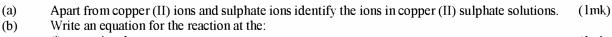
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1.

2.

Aqueous copper (II) sulphate was electrolysed using the set up represented by the diagram below.

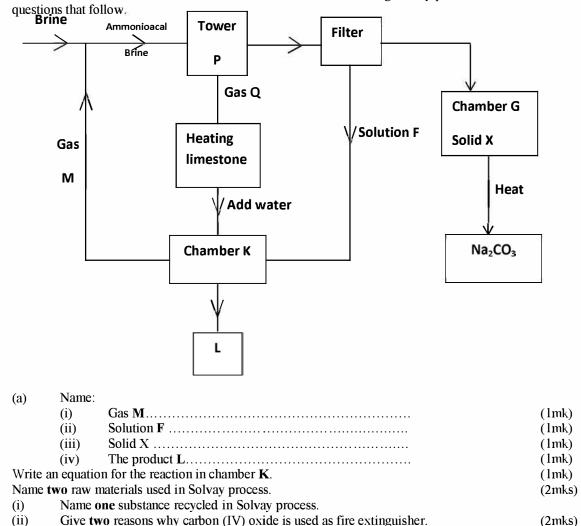




- Anode ..... (lmk (i) (1mk)
  - (ii) Cathode .....
- Using an arrow  $(\rightarrow)$  indicate the direction of flow of electrons on the diagram. (1mk)(C) (d) If in the above set up copper electrodes were replaced with inert electrodes. Write an equation for the reaction
- which would occur at the anode. (1mk)
- An iron spoon was to be electroplates with silver. Draw a well labelled diagram of the set-up of apparatus that  $\widetilde{\sim}$ (e) could be used to carry out the process. (3mks)
- The table below shows ammeter readings obtained where different electrolytes of the same concentration were (f) Sa tested.

Electrolyte	Ammeter reading				
Copper (II) sulphate solution	4.4				
Ethanoic acid	1.2				

Explain why ethanoic acid gave a lower ammeter reading the copper (II) sulphate solution. (2mks) I The flow chart below is for the manufacture of sodium carbonate using Solvay process. Use it to answer the



(iii) Explain why lead carbonate is not reacted with dil.  $H_2SO_4$  in preparation of carbon (IV) oxide in the (2mks) laboratory.

3.

4.

(b)

(C)

(d)

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