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THE PRESIDENTS OFFICE

REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

CHEMBA DISTRICT COUNCIL

FORM TWO MOCK EXAMINATION

CHEMISTRY

TIME :2:30HRS Year:2021

Instructions

- 1. This paper consists of section s A and B with a total of ten (10) questions.
- 2. Answer all questions in the spaces provided
- 3. All writing must be in black or blue ink except diagrams which must be in pencil
- 4. Cellular phones and any unauthorized materials are not allowed in the examination room.
- 5. Write your number at the top right corner of every page
- 6. The following atomic masses may be used :H=1,N=14,O=16,C= 12 ,S=32,Al=27,Na=23,Ar=40.

SECTION A (20 Marks)

Answer all questions in this section

i.	What is the best way of keeping a clean test tube after use?
	A. Keeping it in water
	B. Keeping it on a test tube rack
	C. Keeping it on a test tube holder
	D. Keeping it in a basin for test tubes
ii.	Which group and period does the element with 11 electrons belongs?
	A. Group I and Period 3
	B. Group II and Period 1
	C. Group I and Period 1
	D. Group II and Period 3
iii.	Which of the following is not a component of the First Aid Kit?
	A. Goggles
	B. Dropper
	C. Gloves

D. A pair of scissors

iv.	The oxidation state of metallic elements in a compound is always	
	A. Negative	
	B. Neutral	
	C. Positive	
	D. Zero	
v.	The net charge inside the nucleus of an atom is contributed by	
	A. Protons	
	B. Neutrons	
	C. Electrons	
	D. All nucleons	
vi.	Consider the following reagents ,then state which reagent are invo	olved in
	the preparation of oxygen gas in the laboratory?	
	1. H_2O_2 2. H_2O 3. MnO_4 4. MnO_2	
	A. 1 and 2	
	B. 3 and 4	
	C. 1 and 3	
	D. 1 and 4	
vii.	Which of the following is the correct sequence of the last two step	you
	should follow during the scientific procedure?	
	A. Hypothesis formulation and conclusion	
	B. Observation and problem identification	
	C. Interpretation of data and conclusion	
	D. Experimentation and conclusion	
viii.	Which conditions are necessary for iron nail to rust?	
	A. Oxygen and moisture	
	B. Carbon and oxygen	
	C. Oxygen and nitrogen	
	D. Moisture and nitrogen	
ix.	Air entering the Bunsen burner barrel can be controlled by	
	A. Air hole	
	B. Collar	
	C. Metal jet	
	D. Air ring	
х.	Which process is involved when drying wet clothes?	
	A. Liquid to solid	
	B. Gas to liquid	

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- C. Solid to gas
- D. Liquid to gas
- 2 (a). Match each item in **LIST A** with correct response in **LIST B** by writing the letter of the correct response below the corresponding item number provided.

	List A	List B
i.	A statement of how the results	A. Conclusion
	relate to the hypothesis	B. Data analysis
ii.	A series of the investigations	C. Data collection
iii.	A statement that identifies an	D. Experimentation
	event, fact, or situation.	E. Hypothesis
iv.	A tentative explanation	F. Observation
v.	A step in which the researcher	G. Problem identification
	explains the results	

LIST A	I	Ii	iii	iv	v
LIST B					

2 .	(b) . i	are atoms of the same element having the same atomic number but
	different mass nu	ımber.

ii. Which particles are transferred during chemical reaction?
iii is the substance that alter the rate of chemical reaction.
ivtend to display metallic and non metallic characteristi
v Serum is separated from blood samples by employing a technique called

SECTION B (80 Marks)

Answer all questions in this section.

3 (a). State one use of each of the item (i)-(v) in administering First Aid.

	Item	Use
i	Soap	
ii	Gloves	
iii	Petroleum jelly	
iv	Liniment	

	v	Cotton woo	ol			
	(b)W	/hv candles ar	e not suitable for	heating in the labora	tory? Give two reasons	S
		-		-		
		•	ble causes of von	•		
	1)		• • • • • • • • • • • • • • • • • • • •			
	ii					
	iii					
4. (a)S	ate fo	our modern Da	lton's atomic theo	ory of matter.		
:						
1			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		•••••
ii						
iii						
111	•••••		•••••			•••••
iv						
(b)C	lassify	y each of the f	ollowing element	s into their respectiv	e groups and periods	
	1	Element	Group		Period	7
I		Magnesium				
Ii		Silicon				
Iii		Boron				_
Iv	<u> </u>	Hydrogen				
5(a) Gi	ve tw	o chemical tes	ts of water			
1						
ii						
(b) (i)]	Differ	entiate water t	reatment from wa	ter purification.		
. , , ,				•		
•••••						

II	Gemry 's mother was always complaining about having stomachache by drinking contannich ways would Gemry take to avoid having this problem always? Give three point The position of the element A,B,C,D,F, and G are shown in part of their periodic table be the letters are not the usual symbol of the elements. II III IV V VI VII								
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II	II	_					in part of the	ir periodic tat	oie de
II	II III IV V VI VII E F A	The lett	ers are not t	ne usual symb	ool of the elei	nents.			
E F A	E F A								,
		,							
D B G	D B G	,	II	III	IV	V	VI	VII	
			II	III		V F	1	VII	
		-	II			V F	1		G
			II			F	1		G
			II			F	1		G
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Use the letters to answer the following questions		C Use the	letters to an	D aswer the follow	E owing question	ns	A	В	G
		C Use the	letters to an	D aswer the follow	E owing question	ns	A	В	G
Use the letters to answer the following questions a) Write electronic configuration arrangement of atom A,B,C,D, E and F		C Use the	letters to an	D aswer the follow	E owing question	ns	A	В	G
		C Use the	letters to an	D aswer the follow	E owing question	ns	A	В	G
		C Use the	letters to an	D aswer the follow	E owing question	ns	A	В	G
		C Use the	letters to an	D aswer the follow	E owing question	ns	A	В	G
		C Use the	letters to an	D aswer the follow	E owing question	ns	A	В	G
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		C Use the	letters to an	D aswer the follow	E owing question	ns	A	В	G
		C Use the	letters to an	D aswer the follow	E owing question	ns	A	В	G
		C Use the	letters to an	D aswer the follow	E owing question	ns	A	В	G
		Use the	letters to an	D aswer the follow	E owing question	ns	A	В	G
a)Write electronic configuration arrangement of atom A,B,C,D, E and F	a)Write electronic configuration arrangement of atom A,B,C,D, E and F	Jse the a)Write	letters to an	Daswer the folloconfiguration	ewing questice arrangement	ns of atom A,	A B,C,D, E and	F	G
	a)Write electronic configuration arrangement of atom A,B,C,D, E and F	Use the	letters to an	Daswer the folloconfiguration	ewing questice arrangement	ns of atom A,	A B,C,D, E and	F	G
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a)Write electronic configuration arrangement of atom A,B,C,D, E and F	a)Write electronic configuration arrangement of atom A,B,C,D, E and F	Jse the a)Write	letters to an	Daswer the folloconfiguration	ewing questice arrangement	ns of atom A,	A B,C,D, E and	F	<u>C</u>

CANDIDATE NUMBER____

	(c)Which is the most reactive metal?
2.	(a) Write the names and formulae of the two chemicals that can be used in preparation of oxygen gas
	i
	ii
	(b)(i)State the appropriate method of collecting oxygen gas based on solubility and density of the
	gas in water(ii)How can oxygen gas be tested?
	(c)List four uses of oxygen gas?
i.	
ii. iii.	
iv. 3.	Briefly explain the five classes of fires based on the nature of the burning material and the extinguisher required. Give one example for each class.
	Changaisiner required. Once one chample for each class.

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9.	a) What is isotopy	y:				
	b) If sample X	Consist of 99.76% of	¹⁶ X, 0.04% of ¹	$^7\mathrm{X}$ and 0.20% 18	X.	
	i) Calcı ii)	ulate the relative atom Name the element X				
				• • • • • • • • • • • • • • • • • • • •		
••••						
••••						• • • • • • • • • • • • • • • • • • • •
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••••		• • • • • • • • • • • • • • • • • • • •				
10.	Briefly explain fi	ve characteristics to be				