PRESIDENT'S OFFICE

REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT MWANZA CITY COUNCIL

(BUTIMBA, MKUYUNI AND NYEGEZI) WARDS JOINT

FORM TWO MOCK- EXAMINATION

032 TIME 2:30 HRS

CHEMISTRY

Thursday 20th May, 2021 am

INSTRUCTIONS

- 1. This paper consists of section A and B
- 2. Answer all questions in section in the space provided
- 3. The following constants may be used Atomic masses: H,=1, C=12, O=16, N=14, S=32, Ca=40

SECTION A (20MARKS) ANSWER ALL QUESTIONS IN THIS SECTION

- 1. For each of the items (i) (x), choose the correct answer from the given alternatives and write its letter in the box provided.
 - (i). Which statement gives clear meaning of chemistry
 - A. The study of matter in relation to energy
 - B. The study of nature and properties of matter
 - C. The study of matter and arrangement of particles
 - D. The study of matter and chemical reactions
 - (ii). The mass number of an atom is determined by:

A.protons and neutrons B. protons and electrons C. Neutrons and electrons D. protons alone

- (iii). Which of the following is a metal?
 - A. Water B. chlorine C. Sodium D. Nitrogen
- (iv). Air entering the Bunsen burner barrel can be controlled by:
 - A. Metal ring B. Air hole C. metal jet D. Air ring
- (v). How many atoms are there in water molecules? A. two B. three C. Four D. five
- (vi). Which neutral atom has the same number of electrons as Mg²⁺
 - A.magnesium B. sodium C. Neon D. Argon
- (vii). The appropriate extinguisher used to put of fire caused by cooking oil is:-

A.water extinguisher B. Carbon C. Wet chemical extinguisher D. Dry air extinguisher

- (viii). A non-luminous flame is obtained if the air hole is-----
 - A. Fully opened B. partially opened C. closed D. half opened
- (ix). Which gas is the least abundant gas in the air?. A nitrogen B. Oxygen C. Neon D. Carbondioxide
- (x). The process which produces energy in form of heat and light is called A. Decomposition B. Combustion C. Distillation D. Sublimation
- 2. (a) Match each item in list A with a correct response in list B by writings its letter below the number in the corresponding item number in the table provided

List A	List B
(i). A solvent which dissolves most	A. Solid
substances to form solutions	B. Solution
(ii). A substance that has no definite shape	C. Water
or size	D. Sugar
(iii). A substance that has a fixed shape and	E. Milk
volume	F. Gas
(iv). Homogenous mixture of two or more	G. Liquid
substances	H. air

	(i). (ii). (iii). (iv).	compour A type of	_ is a meas _ is a numb ad f bond invo	olves the tra powder inv	ower of an ons a particular of electrons of electrons of the colves change of the colves of the colv	element to c cular elemen ectron from a ging state of	n metal to non	ned or shared	
	(v).	a	Iters the rat	e of a chem	ical reaction	on without its	self undergoi	ng any chemi	cal change
				A NCWE		ON 'B' (80N	MARKS) IN THIS SE	CTION	
3.	(a) Stat	e one use	of the eac	h of the iten Item	ns in (i)-(v)) in administ	ering first Aid Use	d	
		-	Soap	110111			USC		
		` ′	Bandage						
		(iii)	Sterile gar						
			Iodine tin						
		(v).	Petroleum	jelly					
(iv (v)	(ii). Motor (a) By (i). (iii).	and pest auze giving or During 1 peroxide Fish can Oxygen	ne reason, of aboratory obtain oxy	explain the preparation gen for respused for we	following for of oxyger of oxyger or altration altraling active	act n gas ,little nough spend ities althoug	manganese d their lives in h it does not l	lioxide is adwater	
	(b) whic	ch proper	ty enables	the use of h	ydrogen ga	s in			
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٥.	` /					purification		⊘ 11	
			_			-	Give two reas	sons	
/ T1.	,	,	•	water be tr				الماء المامة مثل	The letter.
	-		ements A,I bols of the		G are sno	wn in the pa	rt of the perio	odic table belo	ow. The letters
I are	II	asuai syli	III	IV	V	VI	VII	VIII	
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С			D				В	G	_]
				ving questio		_			
				nent of aton			4 4 -111	- C 4 4	fD C and G

- (c) Which is the most reactive metal?
- (d) State the type of the bond formed between elements
 - $C \ \ \text{and} \ B$ (i)

(ii) E and A

(e) G	ive any four difference betwee	n the bond formed in (d) (i) and	(ii) above
	•	. , , ,	
(i)		e of the two chemicals that can	
W	ater		d on solubility and density of the gas in
(b) (c) 9. A	(i). Kerosene (ii) Charcoa) Give two reasons to explain laboratory certain compound contains 15	der which of the following fuel be l (iii)Biogas why non luminous flame is norm 5.8% of carbon and 84.2% of sul	elongs nally used as a source of heat in the phur by mass. If trhe molar mass of the
	ompound is 76. Calculate its m		
Si	age	Carbon	Sulphur

- 10. (a) Define the following terms used in chemistry
 - (ii) Isotopes (i) Isotopy
 - (b) Naturally ,Chlorine exist as $_{17}^{35}$ Cl (75%) and $_{17}^{37}$ Cl (25%) .Calculate the relative atomic mass of Chlorine.

ALL THE BEST