Index Number: -----

THE UNITED REPUBLIC OF TANZANIA PRESIDENT'S OFFICE REGINAL ADMINISTRATION & LOCAL GOVERNMENT CHEMISTRY FORM II – PRE – MOCK EXAMINATION

MAY 2022

032

Time: 2:30 Hours INSTRUCTIONS

- This paper consists of section A and B with a total of ten (10) questions
- Answer all questions in the spaces provided
- 2 Section A carries twenty (20) marks and section B carries eighty (80) marks
- 2 All writing must be in black or blue ink except diagrams which must be in pencil.
- 2 Cellular phones and any unauthorized materials are not allowed in the assessment room
- Write your Assessment number at the top right corner of every page

FOR ASSESSOR'S USE ONLY			
QUESTION NUMBER	SCORE	ASSESSOR'S INITIALS	
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
TOTAL			
CHECKER'S INITIALS			

SECTION A - (20 Marks)

Answer all questions in this section

1. For each of the items (i) - (x), choose the correct answer from among the given alternatives and write its letter in the box provided.

			Index Number: -			
	i.	Wind is promising future so				
				ved in harnessing wind powe	er	
		-	e harmful gases tha	t polute the environment		
		C. It is renewable				
		D. It cannot be seen			{	}
	ii.			vapour or steam is called		
		A. Condensation		nspiration	_	
		B. Precipitation		poration	{	}
	iii.	The maximum number of e		ermost shell of an atom is		
		A. 2	C. 4			
		B. 1	D. 8		{	}
	iv.	What type of fire is associa				
		A. CLASS B	C. CLA	ASS E		
		B. CLASS F	D. CL	ASS C	{	}
	V.	Loose or floppy clothing is	not allowed in the I	aboratory. Why?	{	}
		 A. Movement has to l 	oe fast	C. It may catch fire or caus	se one to fal	I
		B. It will get wet whe	n water splashes	D. It cause poor ventilatio	n in the boo	ly
	vi.	Fainting is a sudden loss of				
		A. Consciousness	C. Coi	nfidence		
		B. Weight of body	D. Wa	iter in the body	{	}
	vii.	In simple distillation proces	ss the apparatus use	ed to cool vapour is known a	S	
		A. Dessicator		p's apparatus		_
		B. Liebing condenser		nical flask	{	}
	viii.	The following are the uses			,	•
		A. Breathing and resp		ning and purification		
		B. Manufacture of ma			{	}
	ix.	Hydrogen reacts with sulph	•		•	,
		A. Hydrogen sulphate	•	phurtrioxide		
		B. Hydrogen sulphide			{	}
	x.	How do the chemists refer			,	,
	7.1	A. Suspension		miscible solution		
		B. Miscible solution		ulsion	{	3
2.	(a)			various properties. Match	ι Pach use in I	ist A with
	(α)			of the correct response belo		
		item number in the table p	-	or the correct response belo	w the corre-	ponding
Г		LIST A	Tovided.	LIST B		
\vdash		NA. C. I		and the Britain and the second		
	i. 	Manufacture of ammoni		A. It is lighter than air		
	ii.	Production of oxy – hydr	•	B. Readily reacts with other	chemical su	ıbstance
	iii.	Manufacture of hydroch		C. It is highly flammable		
	iv.	In weather balloons		D. Readily combines with el	ement eg ni	trogen
	V.	Manufacture of margarii	ne E	. It is colourless		
			-			

		LIST A	LIST B
Γ	i.	Manufacture of ammonia	A. It is lighter than air
-	ii.	Production of oxy – hydrogen flame	B. Readily reacts with other chemical substance
-	iii.	Manufacture of hydrochloric acid	C. It is highly flammable
-	iv.	In weather balloons	D. Readily combines with element eg nitrogen
-	V.	Manufacture of margarine	E. It is colourless
-			F. It burns with a blue flame
			G. It is a reducing agent
L			

ANSWERS

LIST A	i.	ii.	iii.	iv.	V.
LIST B					

		Inaex Number:
(b)	Answer i.	the given questions by writing the correct answer in the blank spaces provided Burns caused by hot liquids or vapor are called
	ii.	Which is the condition of a body being hot?
	iii.	Which factor in the experiment that does not affect the outcome of the experiment?
	iv.	The movement of particles from an area of high concentration to one of low concentration is called
	V.	Catalyst used to catalyze decomposition of hydrogen peroxide is called
	11	SECTION B
	r all quesi	
(a)	_	s of states of matter in life processes is not avoidable. Give two importance of changes s of matter.
	1.	
	ii.	
(h)	\\/b a+ +v	was of shange are those?
(b)	i.	/pes of change are these?
	i. ii.	Burning charcoal
		Cloud changing into rain
		Decaying of teeth
		Rusting of iron
(a)	Oxygen i.	is prepared in the laboratory by different common methods. Give two methods
	ii.	
(b)	(i)	When a lit candle is lowered into a gas jar oxygen, it burns more brightly; which chemical property confirms the statement?
	(ii)	What is the importance of the following items in the first aid kit?
		"lodine tincture
		"Whistle"

3.

4.

5. (a)

ii. A lighten splint is into a gas jar containing hydrogen

PME 3

State what is observed when the following simple experiment are performed.

i. A glowing splint is lowered into a gas jar containing oxygen gas

			Iron reacts with oxygen in the presence of moisture
	(b)	(i)	Why water is a universal solvent?
		(ii)	Give the reason why water is a neutral compound?
6.	(a)		ree rules governing after practical activities:
		ii.	
		iii.	
	(b)		own four qualities of a good laboratory.
		i.	
		ii.	
		iii.	
		iv.	
7.	(a)	"Chadw	nree properties of the neutrons with relation to proton and electrons by considering vick as a scientist.
		i.	
		ii.	
		iii.	

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(b) Atom Q has a mass number of 49 and an atomic number of 24. What is

		i.	Neutron number?
		ii.	The number of electrons in atom Q?
8.	(a)	Give th	ne chemical symbols of the following elements:
0.	(~)	i.	Manganese
		ii.	Argon
		iii.	Aluminium
		iv.	Mercury
	(b)	Calcula i.	nte the oxidation number of the underlined elements Na
		ii.	<u>C</u> 0 ₃ ²⁻
		iii.	
			$Na_3\underline{P0}_4$
9.	(a)	Disting	uish empirical formula from molecular formula
	(b)		in compound K contains 52.2% carbon, 13% Hydrogen and the rest is oxygen; if the lar mass of K 138, calculate: Empirical formula

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		Index Number:
	ii.	Molecular formula
10. (a)	Give tv	wo examples of chemical bonding demonstrated in your daily life situation.
	ii.	
(b)		al Z of atomic number 12 combines with chlorine to produce a metal chloride. By means of diagram illustrate the arrangement of electrons in metal Z and chlorine before and after the reaction.
	ii.	What type of bond is formed between Z and chlorine, and give two properties of bond formed.
		1
		1.
		2

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"End"