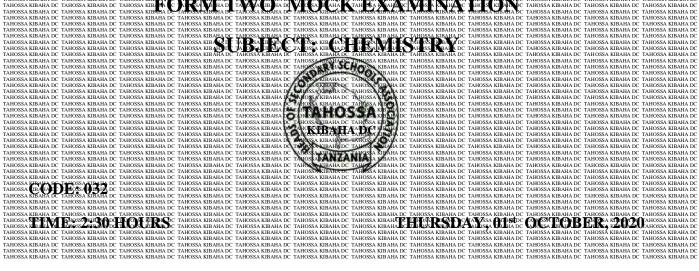
TAHOSSA KIBAHA DC TAHOSSA KIBA TAHOSSA KIBAHA DC TAHOSSA KIBA



INSTRUCTIONS

- This paper consists of section A and B with a total of ten questions
- 2. Answer all questions in the spaces provide
- All writing must be in blue or black ink **EXCEPT** diagrams which must in pencils.
- Cellular phones and other unauthorized materials are not allowed in the examination room
- Write your **examination number** at the top right hand corner of every page.
- The following atomic masses may be used: C = 12, S = 32

FOR EXAMINER'S USE ONLY						
QUESTION NUMBER	SCORES	INITIALS OF EXAMINER				
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). CH	emistry is a branch is the branch of sci	ence w	hich deals with:
A.	Composition of matter	C.	Properties of matter
B.	Structure of matter)
		D.	Both of the above
ii). Wł	nen hydrogen is prepared in the labora	itory, it	is collected by:
A.	Down ward displacement of air		(
B.	Down ward displacement of water		
C.	Upward displacement of air		
D.	Upward displacement of water		
iii). Tł	ne IUPAC name of sulphuric acid is?		
A.	Sulphuric (VI) acid	C.	Hydrochloric acid
В.	Sulphuric acid	D.	Sulphuric sulphorius aid
iv) Th	e mixture of ammonium chloride and	coding	-
	Fractional distillation	C.	Evaporation
	Sublimation Sublimation	C.)
٥.		D.	Magnetization
v). V	alency of an element with atomic nun	nber 10	is?
A.	2	C.	3
B.	1)
		D.	0
vi). T	he part of Bunsen burner which contro	ols the	amount of air is called?
		\boldsymbol{C}	Jet
A.	Air hole	C.	
	Air hole Barrel	C.	()
		D.	() Collar
B. vii). O	Barrel Cobalt chloride paper or crystal when	used to	Collar
B. vii). C	Barrel Cobalt chloride paper or crystal when a colour change of the cobalt chloride is	used to	Collar test for the presence of water
B. vii). C	Barrel Cobalt chloride paper or crystal when a colour change of the cobalt chloride is Blue to pink	used to	Collar
B. vii). C	Barrel Cobalt chloride paper or crystal when a colour change of the cobalt chloride is	used to	Collar test for the presence of wate
B. vii). C	Barrel Cobalt chloride paper or crystal when a colour change of the cobalt chloride is Blue to pink	used to : C.	Collar test for the presence of water Blue to Yellow)
B. vii). C A B.	Cobalt chloride paper or crystal when a colour change of the cobalt chloride is Blue to pink Pink to blue Which of the following is a renewable	used to : C. D.	Collar test for the presence of water Blue to Yellow) Pink to colourless e of energy
B. vii). C A B. viii). ' A	Barrel Cobalt chloride paper or crystal when a colour change of the cobalt chloride is Blue to pink Pink to blue	used to : C. D.	Collar test for the presence of wate Blue to Yellow) Pink to colourless

D.	Biogas
D .	Diosa

ix). The process of coating iron or steel with zinc is known as?

A. Alloying

C. Galvanization

B. Zinc plating

D. Anodization

x). The apparatus used to cool water vapour in distillation process is known as

A. Beaker

C. Thermometer

B. Lie big condenser

)

D. Fractional column

Item	i	ii	iii	iv	v	vi	vii	viii	ix	X
answer										

2. a). Match the items in list A with the correct response in list B by writing the letter of the correct response to the provided table below.

List A	List B
i). Cation	A. Atoms of different element having the same
ii). Isobars	number of nucleons
iii). atomic number	B. Separated by separating funnel
iv). Covalent bond	C. A number written as superscript in front of a
v). immiscible liquids	symbol of an element
	D. Formed by sharing of electrons
	E. Is a positive charged ion
	F. A number written as a subscript in front of a
	symbol of an element
	G. Formed by transferring electrons from one atom
	to another.
	H. Negative charged ion

List A	i	ii	iii	iv	V
List B					

- b). Complete the following statements by filling the blanks with appropriate answer
 - i). A chemical process that occurs on steel or iron in the presence of air and water is Known as
 - ii). The major component of fire triangle are oxygen, heat and
 - iii)......are elements with both metals and non-metals characteristics
 - iv). are smallest particles of an element that has all chemical properties of that element.

		Candidate's Index number No
	v)	are example of group zero or VIII elements.
		Section B (80 marks) Answer all questions in this section
3.	a).	Form two students prepared oxygen gas in the laboratory using hydrogen peroxide solution (H ₂ O ₂), she added manganese IV oxide (MnO ₂) to the solution in the flat bottomed flask and heated the mixture. After few seconds she managed to collect 50cm ³ of oxygen gas. Use information above to answer the questions below. i. Which of the two compounds student used in the above experiment. ii. Write the importance of manganese (IV) oxide in the above experiment?
		iii. Write the equation for the laboratory preparation of oxygen using the compounds above.
		iv. How oxygen gas was collected in the laboratory? give a method of collection and reason for:Method use
	b).	Reason for the method
	a).	Differentiate first aid and first aid kit
	b).	In which aspect is first aid important to human being? Give four reasons i) ii) iii) iv)

4.

c). Write down any four components of the first aid kit and state their uses as guided in the table below.

First aid kit component	Use
Example. Pain killer	To reduce pain
i).	
ii)	

iii)		
iv).		
	am and state the correspo	onding meaning of the following war
igns. Name	Drawing	Meaning
i). Oxidant		
ii). Harmful		
iii). Corrosive		

5.

1 \ 3	
b). N	lention four heat sources used in the laboratory
	i)
	ii)
	iii)
	iv)
5.	a). Define the following terms
	i). Element.
	ii). Compound

iii). Mixture

ii	i) Melting of ic ii).Lighting mat v). Souring of n	tch				
	, , ,					
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
c).	Suggest the si	uitable method	to separate	e each of t	the following	g mixture
	i). Ethanol a	and water				
	ii). Water an	d kerosene				
	iii). Salt and	Water				
	iagram below is	-	lic table. U	Ise the lette	ers A,B and (C to answer
ques	tions after table.					
I						
	II	III	IV	V	VI	VII
).	i) Write A ir	the table for C	Group I and	1 period 3		
ı).	,	the table for C	-	-		
).	ii) Write B in	the table for g	roup III pe	eriod 2		
).	ii) Write B in iii) Write C i	the table for g	roup III pe	eriod 2 period 2		
,	ii) Write B in iii) Write C ii iv). Give the	the table for gone the table for gone actual name for	roup III pegroup VII jor element	eriod 2 period 2 A,B and C		
,	ii) Write B in iii) Write C ii iv). Give the	the table for g	roup III pegroup VII jor element	eriod 2 period 2 A,B and C		
,	ii) Write B in iii) Write C ii iv). Give the	the table for gone the table for gone actual name for	roup III pegroup VII jor element	period 2 period 2 A,B and C element A		
b).	ii) Write B in iii) Write C ii iv). Give the Write the ele	the table for gone the table for gone actual name for	roup III per group VII per per element uration of o	period 2 period 2 A,B and C element A	and C	
,	ii) Write B in iii) Write C ii iv). Give the Write the ele	the table for gone the table for gone actual name for ectronic configuration.	roup III per group VII per per element uration of o	period 2 period 2 A,B and C element A	and C	
o).	ii) Write B in iii) Write C ii iv). Give the Write the ele	the table for gone the table for gone actual name for ectronic configuration.	roup III pegroup VII gor element uration of comment A co	period 2 period 2 A,B and C element A	and C	using their a

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Luminous flame	Non luminous flame	
	I	

	Write four properties of luminous flame and non-luminous flame					
c)	. Why Bunsen burner is suitable source of heat in the laboratory					
8.	What is the molecular formula of the compound made by 15.8% carbon and 84.2% sulphur if the molecular mass of the compound 76					

b).

i)ii)							
a) List four characteristics of good fuel i) ii) iii) iiv) b). Calculate the oxidation state of the following underlined elements							
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) List four characteristics of good fuel i)							
a) List four characteristics of good fuel i) ii) iii) iii) iv) b). Calculate the oxidation state of the following underlined elements							
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i)ii)iii)iv)							
i)ii)iii)iiv)							
i)ii)iii)iii)iv)							
i)ii)iii)iiv)							
	i)ii)						
a). $Na_3\underline{P}O_4$ b). $\underline{N}H_4^+$ c). $\underline{S}O_3^{2-}$							
	a)	. Na <u>3P</u> O ₄	b). <u>N</u> H ₄ ⁺	c). $\underline{S}O_3^{2-}$			

Candidate's Index number No					
c).	Write	the IUPAC name	of each of the following	compounds	
	i).	_			
	ii).	CCl ₄			
	iii).	PCl ₅	• • • • • • • • • • • • • • • • • • • •		