The United Republic Of Tanzania

President's Office

REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

RUVUMA REGION

SONGEA MUNICIPAL COUNCIL

FORM ONE MIDTERM EXAMINATION MARCH 2024

031

PHYSICS

TIME: 2 Hours March, 2024

Instructions

- 1. This paper consists of sections A, B and C with a total of TEN (10) questions.
- 2. Answer all questions
- 3. All writing must be in blue or black ink except drawing which must be in pencil.
- 4. Calculators, cellular phones and any unauthorized materials are not allowed in the examination
- 5. Write your Examination Number at the top right corner of every page.

SECTION A (30 Marks) Answer all questions in this section.

		•			
1. (i) The	branch of science which de	als with the study of the relati	onsh	nip between matter and	
energy	is:-				
A.	Civics	C		Psychology	
B.	Chemistry	D		Physics	
(ii) Physic	cist is a person whose occu	pation specializes in the scien	nce c	of:-	
A. Biology		C.	-	Mathematics	
B.	Physics	D.		Chemistry	
(iii) Matter	is				
A.	Anything which has g	ot mass and occupy a space			
B.	Anything which cont	ains mass and volume			
C.	Scientific study of er	nergy.			
D.	A science which deal	s with the study of nature and	l phy	sical properties.	
(iv) The ab	ility or capacity of doing wo	rk is known as:			
A.	Mass	C.		Pressure.	
В.	Matter	D.		Energy.	

(v) The fo	lowing is the fundamental subjects which other	er subjects u	se its application.
A.	Physics	C.	Biology
B.	Chemistry	D.	Mathematics.
(vi) Measu	rement is defined as;		
`´ A.	Assigning numbers	C.	Precise description
B.	Assigning values	D.	Making observations.
(vii) Which is no	t a basic quantity?		J
A.	Mass	C.	Length
B.	Time	D.	Second
(viii) Advantage	of metric system is that:		
Ä.	It is universally accepted		
B.	It is decimal based system		
C.	One can convert from one unit to ar	nother	
D.	Units of measurement are small.		
(ix) Why Physic	s, Chemistry and Biology are natural science	subjects?	
	They need practical and theory work for learn	•	
B.	They need only theory for learning	9	
	They need practical work only		
	They need only observation.		
	following is a safety precaution in the Physics	s laboratory?	•
` '	Doing experiment in the laboratory		
	Handling of apparatus in the laboratory		
	Use equipment with care in the laboratory		
D.	, ,		
	ument will you use to measure accurately the i	nside diame	ter of a bottle neck?
	Tape measure		Meter ruler.
B.	Micrometer screw gauge		Vernier Calipers.
	e following statement is correct about mass?	٥.	vormer campere.
· ·	It is measured by beam balance	C	It varies with place
	It is measured by spring balance	D.	It can be zero
(xii) A hydromet	ter is an instrument used to measure	Б.	10 0011 00 2010
	The volume of liquids	C	The density of solids
	The density of liquids	D.	
(xiii) SI – Unit of		υ.	The volume of conde.
A.	Centimeter	C.	Meter
л. В.	Kilometer	D.	Millimeter.
	of a wire can be measured using	D.	Willim Hotor.
A.	Venier caliper	C.	Meter Ruler
л. В.	Micrometer screw	D.	Beam balance
D.	gauge	D.	Deam balance
(xv) Which is no	ot a derived quantity?		
A.	Volume	C.	Area
л. В.	Speed	D.	Distance
	olume of a liquid can be measure by using	D.	Distance
A.	Volumetric flask	C.	Burette
А. В.		D.	Cylinder.
D.	Pipette	D.	Gyilliu c i.

(xviii) Lab	A. Identificat B. Preparing coratory rules are A. Making st B. Making st C. Ensuring D. Ensuring ch is a characteri A. Conducts B. Does not C. Has defini D. Has both	udent enjoy scien udent conduct ex safety while in the good communical istic of a gas? electricity have definite shap ite volume but not fixed volume and	al, ce subject, periments freely laboratory, tion with other s pe or volume t shape	C. F D. E	Formation of hypotexperimentation teachers Meter pe	
	Match each item	Gravity in list A with a co em in the able pro List A		D. n list B by writing	Meter squ g its letter number List B	
	ii. Volume iii. Length iv. Relative v. Mass o	 i. Temperature of water ii. Volume of liquid iii. Length of classroom iv. Relative density of milk v. Mass of a book 		A. Thermometer B. Metre rule C. Simple pendulum D. Ticker tape timer E. Vernier caliper F. Relative density bottle G. Electronic balance H. Barometer I. Micrometer screw gauge J. Pair of scissor K. Beam balance		
	(i)	(ii)	(iii)	(iv)	(v)	(vi)
(i) _		ne following state	a scientific stud	questions the correct answ	ver in the space prelation to energy.	ovided.

iv)	There are	states of matter.
v)	A person who study Physics is called	
4.	Define the following terms.	
	(i) Physics	
	(ii) Physicist	
	(iii) Science	
	(iv) Technology	
5.	List any three importance of studying Ph	ysics.
6.	List any five areas where Physics is appl	lied in real life.

7.	Mention five subjects which relates with Physics.
8.	(a) What are the uses of the following devices?
(i)	Thermometer
(ii)	Ruler
(iii)	Relative density bottle
(iv.)	Triple Peam belance
(1V)	Triple Beam balance
(b) W	hy a laboratory door is opened outward?

SECTION C (15 MARKS)

(Answer all questions from this section)

9.	Draw :	symbols used to represent the following warning Flammable
	,	
	b)	Irritant
	c)	Oxidant
	d)	Radioactive

e) Keep away from water

10. From the fig below, determine the diameter of the object.

