

**THE UNITED REPUBLIC OF TANZANIA
PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT
MBOZI DISTRICT COUNCIL
FORM TWO MOCK ASSESSMENT
031-PHYSICS**

TIME: 2:30 Hours YEAR. 2023

INSTRUCTIONS:

1. *This paper consists of sections A, B and C with a total of ten (10) questions.*
2. *Answer all questions in the space provided.*
3. *Section A and C carries fifteen (15) marks while section B carries seventy (70) marks.*
4. *All writing must be in blue or black ink except drawings which must be in pencil*
5. *All communication devices and any unauthorized materials are not allowed in the assessment room*
6. *Write your Assessment Number at the top right corner of every page.*

SECTION A (15 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 beside the item number in the table provided.

(i) The importance of mathematics in studying physics is that

- A. Mathematics is the number and physics is the formula
- B. Mathematics relations can express physics concept
- C. Physics is the study of matter with mathematics
- D. Physics helps mathematics to calculate number

(ii) Your friend is asked to explain laboratory rules he should adhere before getting to physics laboratory. Which among of these mentioned is not correct

- A. Follow instructions carefully
- B. Don't enter in the laboratory
- C. Avoid running in the laboratory
- D. Avoid testing or drinking in the laboratory

(iii) Using defective instrument in taking measurements may lead to

- A. Parallax error
- B. Zero error

- C. Instrument error
- D. Environment error

(iv) The reason why boat float on water while a nail made it sinks is that

- A. Density of boat is larger than that of water
- B. Density of boat is less than that of water
- C. Upthrust of water is less than that of water
- D. Mass of boat is larger than that of water

(v) You see this question paper because

- A. It is white and have good looking
- B. It reflects light to your eyes
- C. It scatter light in both directions
- D. It is smooth and have questions

(vi) We take into account that when capacitor are connected in series

- A. Potential difference in each capacitor is the same
- B. Charge in each capacitor is the same
- C. Current of the circuit is the same
- D. Time for charging capacitor is the same

(vii) For a magnet to remain strong over a long period of time where should it be stored

- A. In a container containing the magnet
- B. In ferrous material
- C. In vibrating box
- D. Away from heat

(viii) A pulley system has four ropes and raises a load of 5N through a height of 2M in 10 seconds. It's velocity ratio will be

- A. 5
- B. 2
- C. 4
- D. 10

(ix) When you suddenly apply a front bicycle brake you are likely to fall forward. This express

- A. Inertia of motion
- B. Inertia of directions
- C. Inertia of rest
- D. Inertia of brake

(x) Source of energy which occurs naturally and are constantly replenished are known as

- A. Solar energy
- B. Wind energy
- C. Non renewable energy
- D. Renewable energy

i	ii	iii	iv	v	vi	vii	Viii	ix	x

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