

**PRESIDENT'S OFFICE**  
**REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT**  
**MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY-BARIADI DISTRICT**  
**COUNCIL**  
**FORM TWO PRE –MOCK EXAMINATION MARCH 2023**  
**SUBJECT CODE: 031 PHYSICS**

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TIME : 2: 30 HRS

**INSTRUCTIONS.**

1. This paper consists of section A, B and C with a total of ten (10) questions.
2. Answer all questions
3. Section A and C carry fifteen (15) marks each and section B carries seventy (70) marks.
4. ALL writing must be in blue or black ink except drawings which must in pencil.
5. ALL communication devices, calculators, and any unauthorized materials are not allowed in the examination room.
6. Where necessary use the following constants
  - (i) Gravitational force,  $g=10\text{N/kg}$
  - (ii) Density of water  $100\text{ kg/m}^3$  or  $1\text{g/cm}^3$

**SECTION A (15 Marks)**

**Answer all question**

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) One of the following is a step in the scientific method.

- A. Debating                      B. Experimentation                      C. Advertising                      D. Composition

(ii) Which one of the following shows a combination of base quantities for force?

- A. mass x length/Time                      B. mass x time/Length  
C. Mass x length/Time x time                      D. Mass x length/Length x length

(iii) The capacitance of a capacitor when a charge of one coulomb changes its potential difference by one volt is \_\_\_\_\_

- A. One coulomb                      B. 0.5C                      C. One charge                      D. 1 farad(1F)

(iv) A laboratory technician tells the form two students that in order to detect the presence of current use the following device.

- A. Ammeter                      B. capacitor                      C. Galvanometer                      D. Voltmeter

(v) An object has a mass of 50kg. What is its potential energy when it's placed at a height of 20cm above the ground?

- A. 100J                      B. 1000J                      C. 10000J                      D. 500J

(vi) Hydrometer helps us to check the purity of liquids as each liquid has \_\_\_\_\_

- A. a fixed mass      B. a fixed density      C. a fixed length      D. a same density

(vii) One of the following is not a form of energy If is \_\_\_\_\_

- A. Thermal energy                      B. Sound                      C. Kinetic theory                      D. Solar energy

(viii) Solar system is held together by \_\_\_\_\_

- A. Friction force                      B. viscous force                      C. Strong nuclear force                      D. Gravitational force

(ix) We use cotton towels to dry ourselves after bathing due to \_\_\_\_\_

- A. Plasticity                      B. Capillarity                      C. Surface tension                      D. Elasticity

(x) A number of images formed when two plane mirrors are inclined to each other at an angle of  $45^\circ$  is \_\_\_\_\_

- A. 7 image                      B. 8 image                      C. 9 image                      D. 45 image

i	ii	iii	iv	v	vi	vii	viii	ix	x

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