**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ADM NO: \_\_\_\_\_\_\_\_\_\_\_\_CLASS:\_\_\_\_\_\_\_\_\_\_**

**DATE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SIGN: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_TARGET\_\_\_\_\_\_\_\_**

**FORM ONE**

**PHYSICS**

**MID-TERM EXAM**

**TERM 1, 2024**

**INSTRUCTIONS: (ANSWER ALL QUESTIONS) TIME: (1HR 30MIN)**

1. Define physics (2mks)

2. Explain the relationship between the following subjects and physics (6mks)

 a. Agriculture

b. History

c. English

3. State four rules to be observed in a physics laboratory. (4mks)

4. Explain, What is area? (1mk)

b. Find the area of triangle with a base of 10cm and height of 8cm.(4mks)

5.  What is volume? (1mk)

1. Change the following into M3  (2mks)
2. 9000cm3
3. 27cm3

7. a. Define the term mass and state its SI unit. (2mks)

 b. Convert each of the following into Kgs (2MKS)

i. 10 tones

ii. 256 000grams

8. Explain what density is and state its SI unit. (2mks)

 b. The density of a material is 22.5g/cm3. Express this in SI unit.

9. A rectangular tank measures 12.5m long, 10.0m wide and 2.0m high. Calculate the mass of the water in the tank when it’s full. If the density of water is 1000kg/m3. (5mks)

10. The mass of an empty density bottle is 20grams. Its mass when filled with water is 40.0grams and 50.0grams when filled with liquid X. Calculate the density of liquid X if the density of water is 1000kgs/Ms. (7mks)

11. Explain force and state its SI unit. (2mks)

b. State and explain three forms of 4 types of forces (8mks)