

## 2024 WASSCE SUPER MOCK PHYSICS 2

## PHYSICS

## PAPER 2

## ESSAY

[60 marks]

1½ hours

Answer **eight** questions in all; **five** questions from part I and **three** questions from part II.

## PART I

[15 marks]

Answer any **five** questions from this part.

All questions carry **equal** marks.

1. Deduce the unit of the following expression:

$$y = k\sqrt{\frac{l}{a}} \quad (l = \text{length, } a = \text{acceleration, } k = \text{dimensional constant}) \quad [3 \text{ marks}]$$

2. A uniform 100cm meter rule balance on a knife edge at the 65cm mark when a mass of 50g is hung at the 85cm mark. What is the weight of the rule? [3 marks]

3. State the **three** (3) types of magnetic materials. [3marks]

4. Calculate the lateral displacement in a glass if the refractive index is 1.5 and the thickness is 3.0 cm. [3 marks]

5.

- a) Explain why it is desirable to install an air conditioner near the ceiling of a room and not close to the floor. [2 marks]  
 b) Briefly explain **one** (1) use of *LASER* in Medicine. [1 mark]

6.

- a.  ${}^2_1\text{H} + {}^2_1\text{H} \rightarrow X + {}^3_0\text{n}$   
 b.  ${}^1_0\text{n} + {}^{235}_{92}\text{U} \rightarrow {}^{141}_{56}\text{Ba} + X + 3{}^1_0\text{n}$  [3 marks]

7. State in words *Kirchhoff's laws of electrical network*. [3 marks]

# 2000 Physics Past Paper Answers

**TD Snyder**



**2000 Physics Past Paper Answers:**

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