

SECTION B: PHYSICS ESSAY
INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS. ALL QUESTIONS
CARRY EQUAL MARKS.

- 1a. Define Friction
b. Two forces A and B are acting on the car shown in the diagram

The mass of the car is 800kg. The magnitude of the force A is 5000N. Calculate the size of force B if the car accelerate at 1.5 m/s^2

- bii. If the magnitude of A and B are equal
Describe the motion of the car

- c. State 2 methods of reducing solid friction

2. Define the following terms:

- i. Heat ii. Temperature iii. State the unit of measuring terms above

- b. State two advantages of alcohol over mercury as a thermometric liquid

- c. The linear expansivity of a metal is $1.5 \times 10^{-5} \text{ K}^{-1}$. Calculate:
i. its cubical expansivity

- ii. If the unit area is 25 cm^2 , calculate the increase in area of the metal for a temperature of 60°C

- *3. Explain the following terms:

- i. capillarity ii. Adhesion iii. Cohesion

- b. Mention 3 types of motion and one example each

- c. A mass of 10 kg is moving in a circular path of radius 2 m with a uniform speed of 50 ms^{-1} . Find:

- i. the centripetal acceleration

- ii. the corresponding centripetal force of the object

- 4a. What is Ionization?

- b. Mention 2 instruments that can be used to generate electric charges

- b. State 2 application of static electricity

- ii. State 2 ways of reducing static electricity

- c. Draw a Gold leaf Electroscope

- 5a. Define Resistivity of a wire

- ii. Highlight four (4) affecting resistivity of a wire

- b. State TWO examples each of:

- i. Ohmic Conductor

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