**GATITU MIXED SECONDARY SCHOOL**

**TUNE UP TERM 11 EXAM.**

**PHYSICS**

**FORM III.**

1. Differentiate between streamlined flow and laminar flow 2mks
2. What is a longitudinal wave and give an example 2mks
3. Name two sources of sound 2mks
4. Define the following terms:

i. amplitude 1mk

ii. period 1mk

iii. frequency 1mk

iv. wavelength 1mk

1. a. State Hooke’s law 2mks

b. A 60g mass is suspended from a spring, when 15g more is added, the spring stretches by 1.2 cm. Given that the spring obeys Hooke’s law, find:

i. the spring constant 3mks

ii.the total extension of the spring 2mks

c. What is meant by the following characteristics as used to describe materials.

 i. Stiffness 2mks

ii. Brittleness 2mks

iii. Elasticity 2mks

1. i. State and explain three ways in which the forces on the coil and hence the speed of a motor can be increased 3mks

ii. A small electromagnet, used for lifting and then releasing a small steel bar, is made in the laboratory as shown in the figure below.

a. Explain why soft iron is a better material than steel to use for the core 2mks

1. State the laws of refraction 2mks

Mr. Karanja

 \*The End\*

**“Disciple and hard work is the key to success”**