GATITU MIXED SECONDARY SCHOOL

PHYSICS FORM II

C.A.T II TERM II 2013

NAME:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ADM:\_\_\_\_\_\_\_\_\_\_\_\_\_DATE:\_\_\_\_

1. Explain why the base of a dam is constructed than the top.(2mks)
2. Distinguish between hard and soft magnetic materials highlighting an example in each case (2mks)

3.i)Define the term magnetic field.(1mk)

ii) Using the Domain theory of magnetism, explain the effect of an external magnetic field on a ferromagnetic material.(2mks)

4. Explain why attraction is not regarded as a suitable method to determine the poles of a magnet.(1mk)

5. The diagram below shows a method of magnetization.

Ferromagnetic material is being magnetized.

i)What pole is acquired by the pole at B. (2mks)

ii) Sketch a graph to show how the strength of a magnet varies with the number of strokes.(2mks)

6. Explain why the needle can be carefully made to float in pure water but sink when detergent is added.(2mks)

7. Even if eight dry cells, arranged in series produce 12 V,they cannot start the engine of a car. Explain.(2mks)

8. (a)Define current and state its SI Units.(2mks)

(b)A charge of 180 Coulombs flow through a lamp battery every minute. Calculate the current flowing in the lamp.(3mks)

9.State two uses of gold leaf electroscope.(2mks)

10.State the Kinetic Theory of matter. (2mks)

11. How does temperature affect Brownian motion.(2mks)

12. State FOUR effects of anomalous behavior of water.(4mks)

THE END

“Success is the sum of small efforts, repeated day in day out.”

Mr.Karanja