GATITU SECONDARY SCHOOL, P.O. BOX 327 – 01030, GATUNDU.
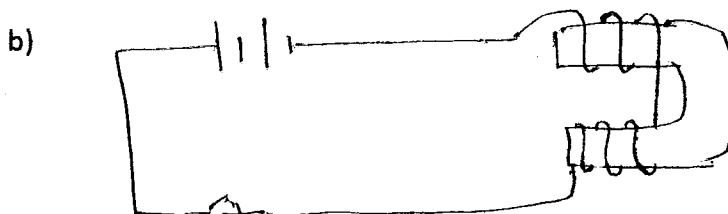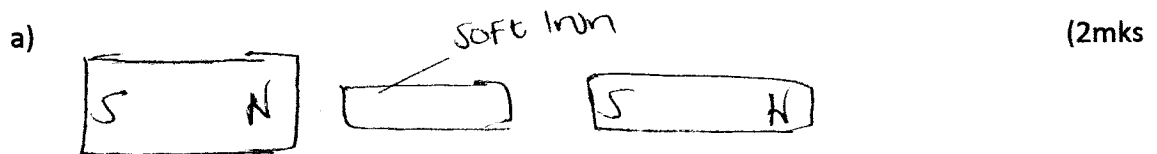
FORM 2 PHYSICS. MID TERM EXAMINATION. TERM 2 2014.

1.State two properties of a magnet. (2mks

2.Sketch the magnetic field around following set ups.

a) (2mks

b)

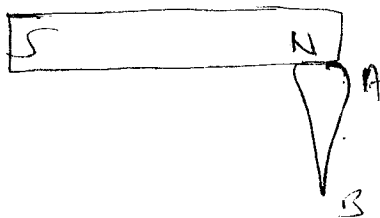(2mks)

3.State and describe three methods of making magnets. (6mks

4.With suitable examples, differentiate between SOFT and hard magnetic materials. (4mks

5.Explain why SOFT iron can not be used to make permanent magnets. (2mks

6.State four applications of magnets. (4mks

7.A steel pin was magnetized using the set up below. Name the polarity A and B (2mks

8. Draw a well labeled diagram of vernier calipers.   (5mks

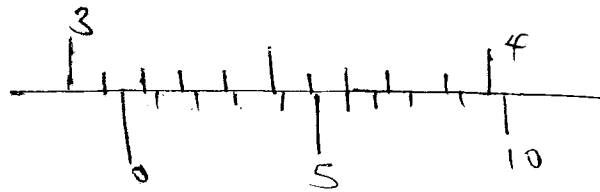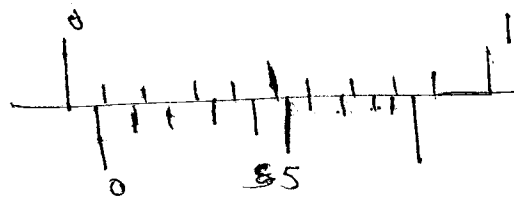**9.** Write the readings indicated in the following sections of vernier calipers.

a)   (2mks
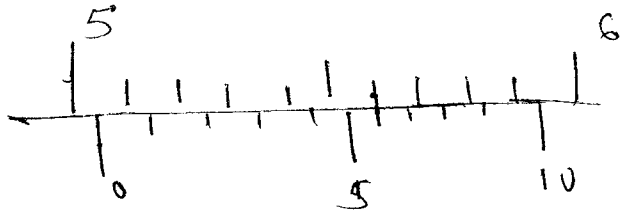
b)   (2mks

c)

10. Describe how you can determine the diameter of a cylindrical object using a metre rule.(4mks

11. Draw a well labeled diagram of a micrometer screw gauge. (5mks

12. State and explain five ways of maintaining a lead acid accumulators. (5mks

13. State the advantages of an alkaline accumulators over lead acid accumulators. (5mks

14. Describe how a gold leaf can be changed positively by induction method. (5mks

15. Calculate the pressure acting on a coin whose cross sectional area is $0.002cm^2$ if it is 5m below the surface of sea water of density 1.03 kg /ms (4mkd

116. The diagram below shows a mercury monometer. Some dry gas is present in the closed limb A, while limb is open. If the atmospheric pressure is 100,000 p.a h = 20 mm and density of mercury is 13.6 g/cm^3, determine the pressure of the gas. (5mks

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