NAME……………………………………………………..ADM………….CLASS………
FORM 2
PHYSICS
ENDTERM TERM 1 EXAM 2020
TIME:

Answer all the questions in the spaces provided.

1.Identify the two properties of magnets.   (2 marks)

2.
a)Differentiate between a magnet and a magnetic material.   (2 marks)
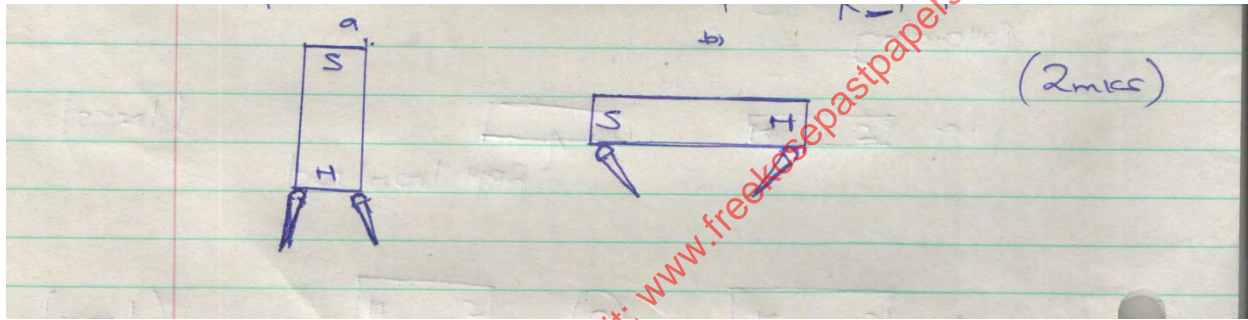
b)State the basic law of magnetism.   (1 mark)

c)Draw magnetic field patterns of the following.

i)

Soft iron rod   (1 mark)

ii)

Soft iron ring   (1 mk)

d)Using the domain theory explain the stroking method of magnetization.   (3 marks)

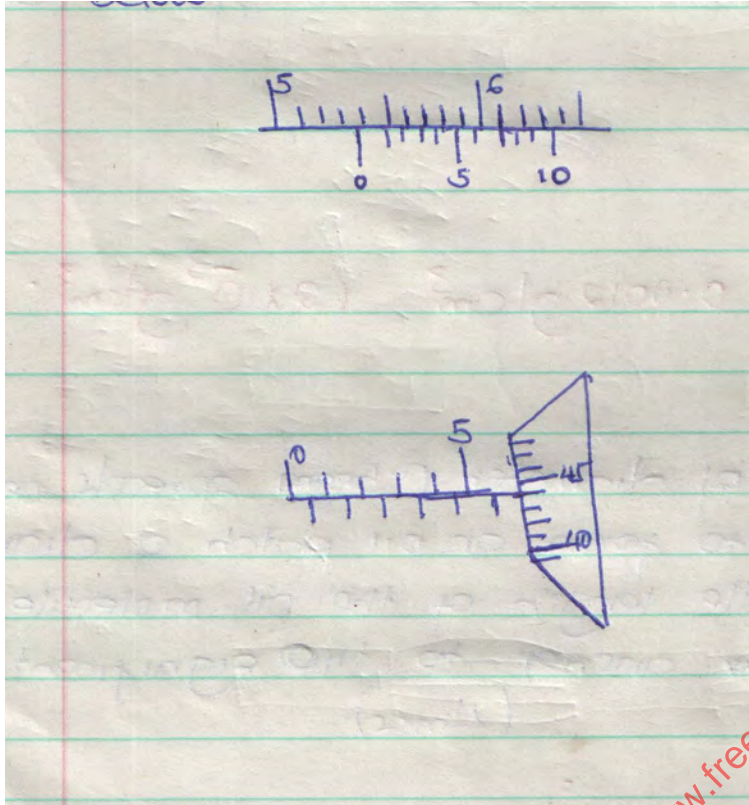3.Two pins are attached to two magnets explain the behavior of the two pins.   (2 marks)

4.
a)State the right hand grip rule as used in magnetism.   (2 marks)

b)List three applications of magnets.   (3 marks)

5.
a)Explain the term Zero Error as used in vernier calipers.   (2 marks)

b)What is the reading of the scales below.   (4 marks)

6a)Write the following numbers in standard form.   (4 marks)
a)0.000037 kg

b)569.03kg

b)A 500cm^3 flask is evacuated and weighed empty. When air is let in the mass increases by 0.60g.Calculate the density of air in g/cm^3 giving your answer in standard form.   (3 marks)

7)If an oil drop of diameter 0.5mm spreads on the surface of water to form an oil patch of diameter 0.2m,estimate the length of the oil molecule and express your answer to two significant figures (4 marks)

8)Explain three effects of anomalous expansion of water. (3 marks)

b)A faulty mercury thermometer reads 10°C when dipped into melting ice and 90°C when on steam oil normal atmospheric pressure .Determine the reading of this thermometer when dipped into a liquid at 20^{0}C. (3 marks)

9.State four factors affecting thermal conductivity. (4 marks)

10.State the two laws of reflection.   (2 marks)

b)How many images would be seen from two mirrors when reflecting surfaces makes an angle of $60^0$with each other.   (2 marks)

c)State two applications of electrostatics.   (2 marks)