Name: Pd 7
Due: _____

# MAGNETISM STUDY SHEET

Each of the following questions represents a concept discussed in class. Further information can be found in Chapters 19-20 of the text.

1. State the rule for magnetic attraction and repulsion.

Opposites Attract, Likes Repel

2. List the 3 categories of magnetism found in various materials:

See notes sheet

3. List the 4 elements that can be made into permanent magnets:

See notes sheet

4. How can you make a temporary magnet? How does it differ from a permanent magnet?

Put a magnet next to a conductor

5. Can a magnet ever have just one pole? Explain what happens to a magnet cut in two.

No → N S → N S N S

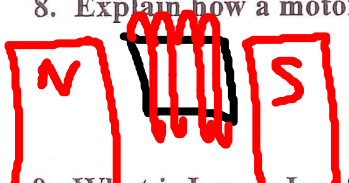
6. Each electron in a piece of iron is like a tiny magnet (domain theory), but the iron as a whole is not a magnet. Explain how this is possible.

All the domains cancel out one another

7. What is the Curie Point? Why will heating or dropping a magnet weaken it?

The point at which a magnet or conductor loses its magnetic properties. Unaligns Domains

8. Explain how a motor or generator works in terms of electric and magnetic field interaction.



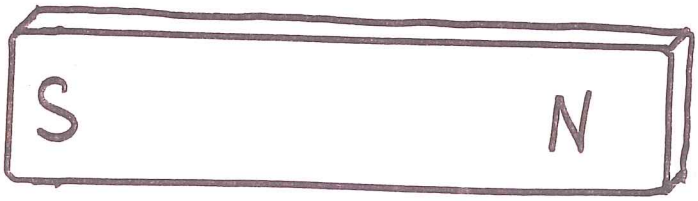

needed electricity to create a magnetic field to spin the motor

Use work to turn the magnet to create mag field to force e- thru the wire.

9. What is Lenz's Law? How does it demonstrate conservation of energy?

An emf always gives rise to current whose mag. field opposes original change in mag. flux.

10. On the back of this sheet, draw the magnetic field (flux) lines for the 4 configurations shown. Be sure to draw the field lines drawing arrows showing direction of the field.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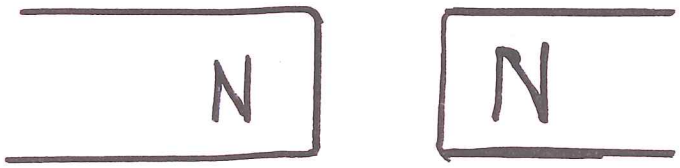
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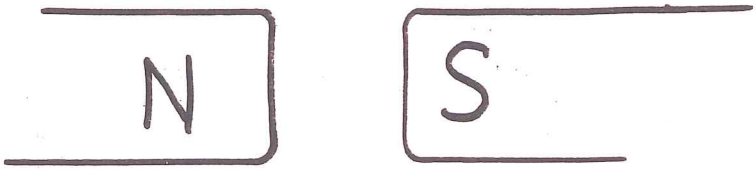
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