Magnetism Post-Test (34 points)

Use your study guide and notes to complete

| Match pt.) | ing: match the word to the | definition, write the letter on the blank (1 |
|---------------|----------------------------|--|
| | _ 1. Compass | a. The magnetized part of a compass |
| | _2. Needle | b. An object that attracts certain metals |
| | _3. Magnet | C.A current carrying coil of wire with many loops, wrapped around a magnetic rod |
| | _ 4. Electromagnet | d. A tool that uses a magnet to show direction |
| | | |

Multiple Choice – choose the best answer or answers (1 pt.each correct answer)

- 5. The space around a magnet where the force of the magnet can act.
 - a. magnetic force
 - b. magnetic field
 - c. magnetic pole
 - d. magnetic area
- 6. If a compass is placed next to a flowing circuit, the needle will?
 - a. spin like a top
 - b. cancels out the magnetic field
 - c. line up with the magnetic field of the wire
 - d. does nothing
- 7. This happens if you cut a magnet in half.
 - a. it loses magnetism
 - b. it's atoms rearrange themselves
 - c. it becomes a stronger magnet
 - d. it becomes two magnets

| | agnet lowered into a bucket | t of nails will pick up | a chain of | |
|-----------------------|--|-------------------------|----------------------|--|
| _ | because | notizod | | |
| | each nail is temporarily mag he magnetic force carries th | | | |
| | ne magnet is really strong | irough the chain | | |
| | he nails are metal so they a | re attracted to the r | nagnet | |
| Short An (2pts) | swer – answer the followin | g questions using c | omplete sentences. | |
| | loes the needle of a compas | ss always point Nor | th? | |
| 10. Desci | ribe what a magnetic pole is | and give an exam | ole. | |
| 11. What | are some uses for magnets | s (other than to hold | things on the | |
| refrigerat | , | | | |
| 12. How | are magnets used in hospit | als? | | |
| Draw and Label (4pts) | | | | |
| | and label two magnets and and label an electromagne | • | ls. | |
| 15. Cate | gorize: Place the following o | objects into the corr | ect category. (9pts) | |
| Iron | Stereo Speakers | Cobalt | Car Motor | |
| Nickel | Refrigerator | Bar magnet | Telephone | |
| Hair drye | r | | | |
| | Electromagnet | nagnet Magnet | | |
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