

_____ 21. Lighting is

- a very large discharge of static electricity
- a build up of neutrons
- a low voltage electric current
- harmless

_____ 22. The Earth has magnetic poles, because of this a compass needle?

- always point east in one direction and west in the other
- spins around
- always points north
- always points south

_____ 23. The atoms in a magnet are

- aligned according to their magnetic poles.
- arranged randomly.
- positively charged
- negatively charged

_____ 24. The region around a magnet where the magnetic forces act is the

- magnetic attraction
- magnetic field
- magnetic pole
- electromagnetic

_____ 25. Magnetic poles that are alike

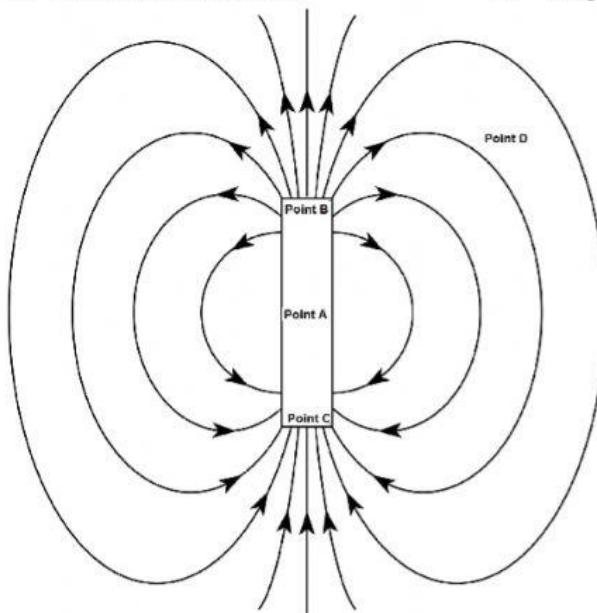
- repel each other.
- attract each other.
- always point toward the north.
- do not react to each other.

_____ 26. The function of an electric motor is to

- change electrical energy to chemical energy
- change mechanical energy to electrical energy
- change chemical energy to electrical energy
- change electrical energy to mechanical energy

_____ 27. For charges to flow, the wire must always be connected in a closed path or

- magnetic field line.
- electrical resistance.
- electric circuit.
- magnetic pole.



_____ 28. Point D is in a region called _____

- the magnetic field
- the magnetic place
- the inner band
- the outer band

_____ 29. At which point or points would the magnetic force be the strongest?

- Point A
- Points A, B and C
- Point D
- Points B and C

_____ 30. The charge on a proton is

- positive, and the charge on an electron is negative.
- negative, and the charge on an electron is positive.
- the same as the charge on an electron.
- can change according to the situation.