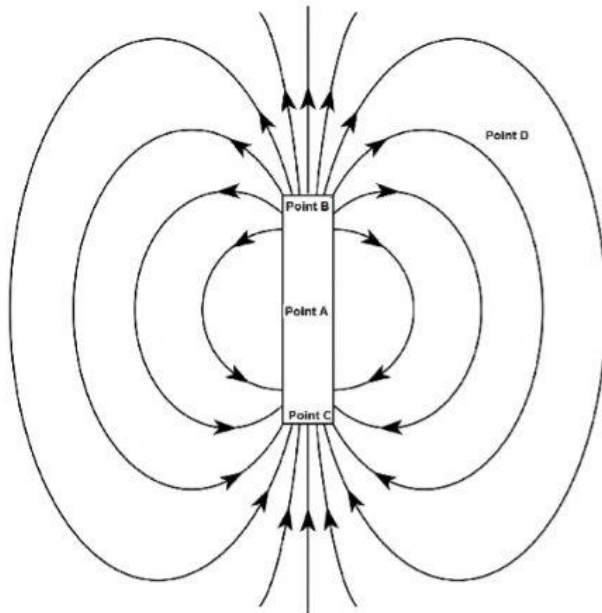


- \_\_\_ 21. Lighting is
- a very large discharge of static electricity
  - a build up of neutrons
  - a low voltage electric current
  - harmless
- \_\_\_ 22. The Earth has magnetic poles, because of this a compass needle?
- always point east in one direction and west in the other
  - spins around
  - 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.