Quiz 7

PHY-106

The respondent's email address (**201370210@gift.edu.pk**) was recorded on submission of this form.

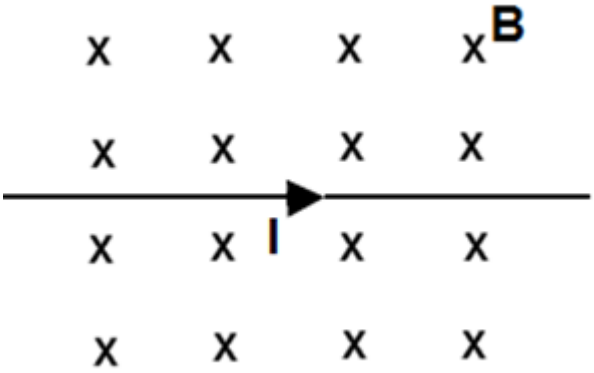
Which, among the following qualities, is not affected by the magnetic field? * 1 point

- ○ Moving charge
- ○ Change in magnetic flux
- ○ Current flowing in a conductor
- ◉ Stationary charge

A bar magnet is divided in two pieces. Which of the following statements is true? * 1 point

- ○ The bar magnet is demagnetized.
- ○ The magnetic field of each separated piece becomes stronger.
- ○ The magnetic poles are separated.
- ◉ Two new bar magnets are created.
- ○ The electric field is created

A straight long wire carries an electric current to the right.The current is placed in a uniform magnetic field directed into the page. What is the direction of the magnetic force on the current? 1 point



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- Out of the page.

A strong magnetic field is applied on a stationary electron. Then the electron * 1 point

- moves in the direction of the field.
- remained stationary.
- moves perpendicular to the direction of the field.
- moves opposite to the direction of the field.

How can a magnetic field be produced? * 1 point

- ○ Using a permanent magnet
- ◉ Electric current
- ○ Using a temporary magnet
- ○ Using a permanent magnet or electric current

The magnetism of a magnet is due to * 1 point

- ○ earth
- ○ cosmic rays
- ○ due to pressure of big magnet inside the earth
- ◉ spin motion of electrons

Which of the following statements is true about magnetic lines of force? * 1 point

- ◉ Magnetic lines of force are always closed.
- ○ Magnetic lines of force always intersect each other.
- ○ Magnetic lines of force tend to crowd far away from the poles of the magnet
- ○ Magnetic lines of force do not pass through the vacuum.

If the flow of electric current(flow of charges) is parallel to the magnetic field, the force will be? * 1 point

- (●) Zero
- ( ) Infinity
- ( ) Option 3
- ( ) Half the original value

The magnetic field is the strongest at * 1 point

- ( ) middle of the magnet.
- ( ) north pole.
- ( ) south pole.
- (●) both poles.

The relation between the direction of current and the direction of the force is * 1 point

- (●) Same direction
- ( ) Opposite direction
- ( ) Perpendicular
- ( ) Unrelated

we might reasonably expect that a magnetic field is produced by a magnetic charge. * 1 point

- (●) Magnetic monopole
- ( ) Magnetic dipole
- ( ) Magnetic moment
- ( ) All of these

The force acting on a charged particle moving with velocity v through a magnetic field B is always * 1 point

- (●) perpendicular to and B
- ( ) Parallel to and B
- ( ) anti-Parallel to and B.
- ( ) None of these

The SI unit for Magnetic Field B is * 1 point

- ( ) Tesla
- ( ) N/A m
- ( ) N-s/C m
- (●) All of these

The magnetic lines all pass through the magnet, and they all form * 1 point

- (●) Closed loop
- ( ) Open Loop
- ( ) Straight lines
- ( ) None of these

Which of the following in motion cannot be deflected by a magnetic field * 1 point

- ( ) Electron
- ( ) Proton
- (●) neutron
- ( ) Sodium ion

The magnetic field lasts only as long as the _____flowing through the conductor * 1 point

- ( ) emf
- ( ) Voltage
- (●) Current
- ( ) None of these

A current flowing towards the reader (into the plane of the paper) is denoted by * 1 point

- (●) Cross
- ( ) A Dot
- ( ) A bracket
- ( ) None of these

When a charged particle 'q' is moving with velocity 'v' in a region having electric and magnetic force, then magnetic force * 1 point

- (●) Does zero work
- ( ) Does some work
- ( ) Does negative work
- ( ) None of these

One way is to use moving electrically charged particles, such as a current in a wire, to make an * 1 point

- (●) Electromagnet
- ( ) Permanant magnet
- ( ) monoplole magnet
- ( ) None of these

1 tesla * 1 point

- (●) 10000 gauss
- ( ) 1000 gauss
- ( ) 100 gauss
- ( ) 10 gauss