**IB Physics**

**Pre-Quiz 20.1**

Name

Favorite Oxymoron

**Label the direction of the quantity listed in the location indicated. ( . = out of the page, x = into the page)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **1** | X  X  X  X    x  **.**  **.**  ^  <  > |  |  |  |
| **2** | I  B?  I?  B?  B . . . . . . .  B x x x x x x x  B?  B?  I  x  .  >  x . |  |  |  |
| **3** | **Which way does the north pole point?**  I  I  N  S  .  x  ^  ^ | **Which way does the north pole point?** | **Which way does the north pole point?**  **(Current flow L to R on Front of coil)** | **Which way does the current flow on the front side of this coil** |
| **4** | **F ?**  B:  x x x x x x x  x x x x x x x  x x x x x x x  x x x x x x x  I  I  B:  I  F  B:  . . . . . . .  . . . . . . .  . . . . . . .  . . . . . . .  F  ^  x  x  ^ | **F ?** | **B ? (That causes the force)** | **I ?** |
| **5** | **Which way is the force on the moving particle?**  B:  . . . . . . .  . . . . . . .  . . . . . . .  . . . . . . .  B:  . . . . . . .  . . . . . . .  . . . . . . .  . . . . . . .  N  W E  S  N  W E  S  <  v  W  . | **Which way is the force on the moving particle?** | **Which way must a proton move to experience a vertically downward force in a northerly magnetic field?** | **An electron moving east experiences a force to the north. B is what way?** |