QUIZ6 10 MIN

ROOM: EM1304

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- 1. The force of a moving charge in a magnetic field is $\vec{F}_B = q\vec{v} \times \vec{B}$. This force is
- A. Perpendicular to \vec{v} but not \vec{B}
- B. Perpendicular to \vec{B} but not \vec{v}
- C. Perpendicular to \vec{v} and \vec{B}
- D. None of the above

2. A long straight wire carriers 10 A. The magnetic field 1 cm from the wire is A. 2 G B. 3 G

C. 0.5 G D. 10 G

3. A toroid with a center radius of 10 cm has 1000 turns of wire that carries 5 A. The field at this location is

A. 100 G	B. 200 G
C. 0.01 G	D. 50 G

4. Two straight wires are parallel to each other. Each carries 10 A current, flowing in opposite direction. The force between the two wires is

- A. attractive
- B. repelling
- C. zero, i.e., no force between the wires
- D. 100 N