

Physics II Exam 3

Name: Key

4

1. A proton has a force on it which points up, and it is moving towards the east. If the magnetic field is known to be perpendicular to the velocity, in which direction is it?

- (a) north (b) south (c) east (d) west (e) up (f) down

4

2. Two different resistors are in parallel with each other. Which one has the largest voltage?

- (a) the larger resistor (b) the smaller resistor (c) same voltage (d) it depends

4

3. If $\vec{A} = \vec{B} \times \vec{C}$, which vectors must necessarily be perpendicular to each other?

- (a) $\vec{A}$ and $\vec{B}$ (b) $\vec{A}$ and $\vec{C}$ (c) $\vec{B}$ and $\vec{C}$ (d) all of them (e) just (a) and (b) (f) none of them

4

4. A wire has a current running north in a magnetic field which points up. What is the direction of the force on the wire?

- (a) north (b) south (c) east (d) west (e) up (f) down

4

5. Which diagram below correctly shows the direction of the magnetic field lines of a bar magnet?



4

6. How should two resistors be connected to each other in order to create the least resistance?

- (a) in parallel (b) in series (c) same resistance either way (d) it depends

4

7. A rectangular loop with a clockwise current is partly inside a magnetic field and partly outside as shown. In which direction is the net force on it?

- (a) up (b) down (c) left (d) right (e) into page (f) out of page



4

8. An electron is going south through a magnetic field which points east. In which direction is the force on the electron?

- (a) north (b) south (c) east (d) west (e) up (f) down

4

9. Which magnetic dipole shown in the figure is in its stable equilibrium position?

- (a) A (b) B (c) C (d) D (e) both C and D



4

10. Two different resistors are in series with each other. Which one has the largest voltage?

- (a) the larger resistor (b) the smaller resistor (c) same voltage (d) it depends

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