Automotive Electrical and Engine Performance, 8th Edition
Quiz 11B

Name_____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) Technician A says that magnetism can cause electric current to flow in a conductor. Technician B says that magnetic lines of flux can never penetrate rubber insulation on a conductor. Who is right? 1) _____
A) Technician A only
B) Technician B only
C) Both technicians A and B
D) Neither technician A nor B

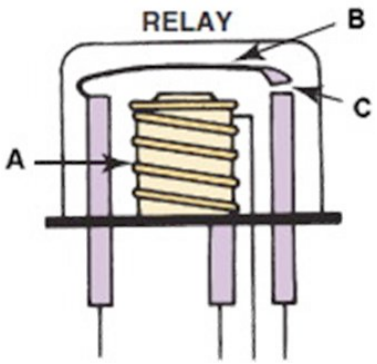
2) Where is the force of magnetic lines strongest in a bar magnet? 2) _____
A) At each end
B) In the middle of the magnet
C) Only at the north pole of the magnet
D) None of these

3) Electromagnetic interference can be reduced by using a _____. 3) _____
A) resistance
B) capacitor
C) coil
D) All of the above

4) A magnetic field can be measured using a _____. 4) _____
A) Gauss gauge
B) voltmeter
C) inductive pickup
D) None of these

5) How can the electromagnetic strength of an energized coil of wire be increased? 5) _____
A) Place an iron core in the middle of the coil
B) Increase current flow through the coil
C) Increase the number of turns in the coiled wire
D) Any of these

6) Which part of this relay is the low current, control circuit? 6) _____



A) A
B) B
C) C
D) None of these

7) Which of these uses a movable core to act as an electric switch? 7) _____
A) Solenoid
B) Relay
C) Transistor
D) None of these

8) When discussing induced voltage caused by a magnetic field moving across a complete circuit, technician A says that the direction of current flow depends on the direction of movement of flux lines. Technician B says that the direction of current flow is called polarity. Which technician is correct? 8) _____
A) Technician A only
B) Technician B only
C) Both technicians A and B
D) Neither technician A nor B

9) Technician A says that a relay is an electromagnetic switch. Technician B says that a solenoid uses a movable core. Which technician is correct? 9) _____
A) Technician A only
B) Technician B only
C) Both technicians A and B
D) Neither technician A nor B

10) Technician A says that objects with high permeability allow magnetic lines of flux to flow easily through their material. Technician B says that some objects are good insulators that will not allow magnetic lines of flux to flow through their material. Which technician is correct? 10) _____
A) Technician A only
B) Technician B only
C) Both technicians A and B
D) Neither technician A nor B

Answer Key
Testname: AEEP8_11B

1) A
Page Ref: 160, 165
2) A
Page Ref: 159
3) D
Page Ref: 169
4) A
Page Ref: 159
5) D
Page Ref: 162
6) A
Page Ref: 163
7) A
Page Ref: 163
8) C
Page Ref: 166
9) C
Page Ref: 163
10) A
Page Ref: 160