

Name _____

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

- 1) Magnetism can be used to create electricity. 1) _____
A) True
B) False

- 2) Magnetic field strength is measured in _____. 2) _____
A) Ampere-turns
B) Flux
C) Density
D) Coil strength

- 3) 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. Which technician is correct? 3) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

- 4) Technician A says that magnets are typically used in some speed sensors. Technician B says magnets are used in potentiometers. Which technician is correct? 4) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

- 5) 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? 5) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

- 6) Two technicians are discussing ignition coils. Technician A says that some ignition coils have the primary and secondary windings electrically connected. Technician B says that some coils have totally separate primary and secondary windings that are not electrically connected. Which technician is correct? 6) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

- 7) An ignition coil operates using the principle of _____. 7) _____
A) Electromagnetic induction
B) Self-induction
C) Mutual induction
D) All of the above
- 8) Magnetic lines of flux flow very easily through objects with high reluctance. 8) _____
A) True
B) False
- 9) An ignition coil is an example of a _____. 9) _____
A) Solenoid
B) Step down transformer
C) Step up transformer
D) Relay
- 10) On some vehicles there is a ground strap between the hood and the vehicle body. What is the purpose of this ground strap? 10) _____
A) To suppress RFI
B) To suppress EMI
C) To provide ground for the washer nozzles
D) To reduce paint corrosion

Answer Key

Testname: AEE6_14A

1) A

Page Ref: 165

2) A

Page Ref: 162

3) A

Page Ref: 165

4) A

Page Ref: 158

5) A

Page Ref: 159

6) C

Page Ref: 166

7) D

Page Ref: 165, 168

8) B

Page Ref: 160

9) C

Page Ref: 166

10) B

Page Ref: 168