Name\_\_\_\_\_

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

<ol> <li>Technician A says that magnets are used in some crankshaft position sensors. Technician B says magnets are used in potentiometers. Which technician is correct?         <ul> <li>A) Technician A only</li> <li>B) Technician B only</li> <li>C) Both technicians</li> <li>D) Neither technician</li> </ul> </li> </ol>	1)
<ul> <li>2) Two technicians are discussing electromagnetic induction. Technician A says that the induced voltage can be increased if the speed is increased between the conductor and the magnetic lines of force. Technician B says that the induced voltage can be increased by increasing the strength of the magnetic field. Which technician is correct? <ul> <li>A) Technician A only</li> <li>B) Technician B only</li> <li>C) Both technicians</li> <li>D) Neither technician</li> </ul></li></ul>	2)
<ul> <li>3) Magnetic lines of flux flow very easily through objects with high reluctance.</li> <li>A) True</li> <li>B) False</li> </ul>	3)
<ul> <li>4) How can the electromagnetic strength of an energized coil of wire be increased?</li> <li>A) Place an iron core in the middle of the coil</li> <li>B) Increase current flow through the coil</li> <li>C) Increase the number of turns in the coiled wire</li> <li>D) Any of these</li> </ul>	4)
<ul> <li>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? <ul> <li>A) Technician A only</li> <li>B) Technician B only</li> <li>C) Both technicians</li> <li>D) Neither technician</li> </ul></li></ul>	5)
6) Magnetic field strength is measured in A) ampere-turns B) flux C) density D) coil strength	6)

7) Electromagnetic interference can be reduced by using a	7)
A) resistance	
B) capacitor	
C) coil	
D) Any of the above	
8) An ignition coil operates using the principle of	8)
A) electromagnetic induction	
B) self-induction	
C) mutual induction	
D) All of the above	
<ul> <li>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?</li> <li>A) Technician A only</li> <li>B) Technician B only</li> </ul>	9)
C) Both technicians	
D) Neither technician	
10) Which term describes current flow produced in a complete circuit when a magnetic field is moved back and forth across the circuit path?	10)
A) Magnetic induction	
B) Electromagnetic reluctance	
C) Magnetic potential	
D) None of these	

Answer Key Testname: AT6\_47B

> 1) A Page Ref: 537 2) C Page Ref: 540 3) B Page Ref: 537 4) D Page Ref: 539 5) A Page Ref: 537 6) A Page Ref: 539 7) D Page Ref: 545 8) D Page Ref: 542-543 9) C Page Ref: 539-540 10) A Page Ref: 540