Name_____

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

 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? A) Technician A only B) Technician B only C) Both technicians D) Neither technician 	1)
 2) How can the electromagnetic strength of an energized coil of wire be increased? 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 	2)
 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. Who is right? A) Technician A only B) Technician B only C) Both technicians D) Neither technician 	3)
 4) Technician A says that magnets are used in some crankshaft position sensors. Technician B says magnets are used in potentiometers. Which technician is correct? A) Technician A only B) Technician B only C) Both technicians D) Neither technician 	4)
 5) Where is the force of magnetic lines strongest in a bar magnet? A) At each end B) In the middle of the magnet C) Only at the north pole of the magnet D) None of these 	5)
6) Magnetic field strength is measured in A) ampere-turns B) flux C) density D) coil strength	6)

 7) The conventional theory for current flow is being used to determine the direction of magnetic lines of force. Technician A says that the left-hand rule should be used. Technician B says that the right-hand rule should be used. Which technician is correct? A) Technician A only B) Technician B only C) Both technicians D) Neither technician 	7)
 8) An ignition coil is an example of a A) solenoid B) step down transformer C) step up transformer D) relay 	8)
 9) 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? A) Technician A only B) Technician B only C) Both technicians D) Neither technician 	9)
 10) Technician A says that a relay is an electromagnetic switch. Technician B says that a solenoid uses a movable core. Which technician is correct? A) Technician A only B) Technician B only 	10)

- C) Both technicians
- D) Neither technician

Answer Key Testname: AT6_47A

> 1) C Page Ref: 540 2) D Page Ref: 539 3) A Page Ref: 537 4) A Page Ref: 537 5) A Page Ref: 536 6) A Page Ref: 539 7) B Page Ref: 537 8) C Page Ref: 543 9) A Page Ref: 537 10) C Page Ref: 539-540