Automotive Electrical and Engine Performance, 8th Edition Quiz 29A

Name		

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

 The ignition module has direct control over the firing of the coil(s) of an EI system. Which component(s) triggers (controls) the module? A) Pickup coil B) Computer C) Crankshaft sensor D) Either A or C 	1)
 2) How does a waste-spark ignition system fire the spark plugs? A) The polarity reverses at each firing (flip flops) B) The same plug always is fired straight or reverse polarity C) The waste spark is sent to the cylinder next to the cylinder being fired D) Both A and C 	2)
 3) Which switching device uses a shutter blade and sensor to detect a magnetic field? A) Hall-effect switch B) Pickup coil C) Optical sensor D) Ignition coil 	3)
 4) A COP ignition system can be called A) coil-by-plug B) coil-near-plug C) coil-over-plug D) Any of the above 	4)
 5) What is the principle used to create high voltage from low voltage? A) Mutual induction B) Electromagnetic multiplication C) Electromechanic induction D) Electromagnetic magnification 	5)
 6) HEI and EIS are examples of A) waste-spark systems B) coil-on-plug systems C) distributor ignition systems D) pickup coil types 	6)
 7) An ion-sensing ignition system allow the ignition system itself to be able to A) detect misfire B) detect spark knock C) detect rich or lean air-fuel mixture D) All of the above 	7)

8) Technician A says that a waste spark ignition system fires two spark plugs at the same time.		
Technician B says that the waste spark ignition system uses ignition coils connected to		
companion cylinders. Which technician is correct?		
A) Technician A only		
B) Technician B only		
C) Both technicians A and B		
D) Neither technician A nor B		
9) The pulse generator	9)	
A) fires the spark plug directly	· · · · ·	
B) signals the electronic control unit (module)		
C) signals the computer that fires the spark plug directly		
D) is used as a tachometer reference signal by the computer and has no other function		
10) Which switching device creates its own electrical voltage pulse?	10)	
A) Magnetic sensor		
B) Hall-effect switch		
C) Optical sensor		

D) Ignition coil

Answer Key Testname: AEEP8_29A

> 1) D Page Ref: 467 2) B Page Ref: 472 3) A Page Ref: 467 4) D Page Ref: 476 5) A Page Ref: 466 6) C Page Ref: 470-471 7) D Page Ref: 476 8) C Page Ref: 472 9) B Page Ref: 471 10) A Page Ref: 469