## Electric and Hybrid Electric Vehicles, 1st Edition

## Quiz 15B

NAME \_\_\_\_\_

1. Two technicians are discussing electric power steering (EPS) systems. Technician A says that	1.	
some systems operate on 12 volts. Technician B says that some systems operate on 42 volts, such as on some hybrid electric vehicles. Which technician is correct? A) Technician A only		
B) Technician B only		
C) Both technicians A and B		
D) Neither technician A nor B		
2. The steering torque sensor in an electric power steering system senses	2.	
A) steering wheel torque		
B) steering wheel direction		
C) Both a and b D) Naithan a near h		
D) Neither a nor b		
3. If a fault is detected in the electric power steering system, what dash light is turned on?	3.	
A) The "check engine" light		
B) The "service vehicle soon" light		
C) The power steering warning light D) Either b or c		
4. The EPS control unit will vary the to the EPS motor, depending on sensor inputs.	4.	
A) RPM		
B) voltage		
C) pressure D) current		
D) current		
5. Which of these must be serviced together, as a unit?	5.	
A) Steering wheel and air bag		
B) Steering torque and position sensors		
C) Steering warning lamp and PSCM		
D) All of these can be serviced individually.		
6. The steering shaft torque sensor uses as inputs to the EPS control module.	6.	
A) calibrated springs		
B) vacuum pulses		
C) viscous resistances		
D) voltage signals		
7. Where is the assist motor located in a column mounted EPS system?	7.	
A) In the engine compartment		
B) Under the steering rack		
C) Inside the vehicle		
D) Near the vacuum booster		

8. The advantages of electric power steering compared to hydraulic power steering include	8
A) less weight	
B) improved fuel economy	
C) increased usable engine power	
D) All of the above	
9. What diagnostic equipment is usually needed to diagnose faults or relearn the electric power steering system?	9
A) Special electronic diagnostic equipment designed to test each specific system	
B) Factory or factory-level scan tool	
C) A breakout box	
D) A 12-volt test light	
10. What type of diagnostic trouble codes will be set when an EPS system fault is detected?	10.
A) Type A code	
B) Type B code	
C) Type C code	

D) Type D code

## Answer Key Testname: EV1\_15B

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10. C

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