Electric and Hybrid Electric Vehicles, 1st Edition

Quiz 18A

E	
1. LIDAR systems are capable of	1.
A) creating 3-D images at 300 yards	1.
B) recognizing an object	
C) measuring distance, location, and speed	
D) All of the above	
D) I'm of the above	
2. Self-parking vehicles use and control the to control the vehicle into a parking	2.
space.	
A) radar; throttle	
B) camera; electric power steering	
C) sonic sensor; brakes	
D) radar; electric power steering	
3. Lane keep assist uses a camera that is mounted	3.
A) below the front bumper	
B) in front of the inside rearview mirror	
C) in the inside rearview mirror	
D) in either outside rearview mirror	
4. Rear cross-traffic alert is used to warn the driver when backing out from a parking space if there	4.
is a vehicle approaching from either side. The system uses installed on both sides of	
the vehicle near the rear bumper.	
A) sonar	
B) ultrasonic	
C) radar	
D) cameras	
5. Lane departure warning systems uses cameras to watch	5.
A) speed bumps approaching	
B) lane marking lines	
C) median grass	
D) road shoulders	
6. Technician A says that adaptive cruise control allows hands-free driving. Technician B says that	6.
the adaptive cruise control system operates at all speeds. Which technician is correct?	
A) Technician A only	
B) Technician B only	
C) Both technicians A and B	
D) Neither technician A nor B	
7. Calibrating radar and cameras involves all of the following EXCEPT	7.
A) factory or factory-level scan tool	
B) special targets set at precisely specified location around the vehicle	
C) both static (stationary and dynamic (moving) calibration is required	
D) driving the vehicle in a girds 10 times to calibrate the compared	

8. ADAS calibration may include the use of	8	
A) lines on the floor		
B) targets		
C) folded window covers		
D) Either a or b		
9. Dedicated short-range communication (DSRC) systems are capable of	9	
A) creating 3-D images at 300 yards		
B) recognizing an object		
C) measuring distance, location, and speed		
D) transmitting messages in milliseconds		
10. The purpose of lane keep assist (LKA) is	10.	
A) to warn the driver if moving out of a lane		
B) used with adaptive cruise control to self-drive the vehicle without driver input or control		
C) to keep the vehicle within the lane, using the electric power steering		
D) Both a and c		

Answer Key

Testname: EV1_18A

1. D

Page Ref: 260-261

2. B

Page Ref: 395

3. B

Page Ref: 255

4. C

Page Ref: 398

5 F

Page Ref: 254

6. D

Page Ref: 255

7. D

Page Ref: 400-401

8. D

Page Ref: 261

9 F

Page Ref: 265

10. D

Page Ref: 395