

Name _____

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

- 1) What SAE level has the vehicle handling all functions without any driver interventions? 1) _____
A) Level 3
B) Level 5
C) Level 6
D) None of these

- 2) The purpose of a camera in an autonomous vehicle is to _____. 2) _____
A) post pictures on social media
B) replace the human eye
C) take selfies of the driver
D) none of the above

- 3) Ultrasound on an autonomous vehicles is being discussed. Technician A says that it is typically used in park-assist applications. Technician B says that it has an effective operating range of approximately 2 to 4 yards. Which technician is correct? 3) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

- 4) What may be required to properly calibrate the vehicle camera system? 4) _____
A) Painted lines on the floor
B) Small mirrors
C) Large patterned mats
D) None of these

- 5) Many manufacturers currently offer SAE level _____ equipped vehicles. 5) _____
A) 2
B) 3
C) 4
D) 5

- 6) Radar systems use _____ to calculate the speed and distance of objects. 6) _____
A) flashing LEDs
B) the Doppler Effect
C) vibration returns
D) mirrored discs

- 7) An autonomous vehicle can have up to how many driving levels? 7) _____
A) 2
B) 6
C) 7
D) 3

- 8) Autonomous vehicles are being discussed. Technician A says that vehicle-to-vehicle communication results in fewer traffic collisions. Technician B says that there are concerns related to cybersecurity and a loss of privacy. Which technician is correct? 8) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 9) On an autonomous vehicle, navigation decisions are made by the _____. 9) _____
- A) actuators
 - B) brake-by-wire system
 - C) multi-domain controller
 - D) LIDAR controller
- 10) What will happen if there is a fault in any of the actuators in an autonomous vehicle? 10) _____
- A) DTCs will be set.
 - B) The system will enter a fail-safe mode.
 - C) Both A and B
 - D) Neither A nor B