

Name _____

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

- 1) Radar systems use _____ to calculate the speed and distance of objects. 1) _____
 - A) flashing LEDs
 - B) the Doppler Effect
 - C) vibration returns
 - D) mirrored discs

- 2) A level 2 autonomous vehicle may include which of the following systems? 2) _____
 - A) Adaptive cruise control
 - B) Lane-departure warning
 - C) Automatic emergency braking
 - D) All of the above

- 3) _____ allows the computers to learn and react like a human. 3) _____
 - A) The multi-domain controller
 - B) Artificial intelligence
 - C) RADAR
 - D) The steer-by-wire system

- 4) Actuators in an autonomous vehicle are used to control the _____. 4) _____
 - A) engine
 - B) brakes
 - C) steering
 - D) all of the above

- 5) Dedicated short-range communication is used in _____. 5) _____
 - A) vehicle-to-vehicle communication
 - B) vehicle-to-infrastructure communication
 - C) both A and B
 - D) neither A nor B

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

- 7) The purpose of a camera in an autonomous vehicle is to _____. 7) _____
 - A) post pictures on social media
 - B) replace the human eye
 - C) take selfies of the driver
 - D) none of the above

8) To ensure proper operation, the radar unit should be _____ when needed. 8) _____
A) cleaned
B) polished
C) covered
D) painted

9) What may be required to properly calibrate the vehicle camera system? 9) _____
A) Painted lines on the floor
B) Small mirrors
C) Large patterned mats
D) None of these

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