

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

Answer Key

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1) B

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2) D

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3) B

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4) D

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5) C

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6) B

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7) B

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8) A

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9) C

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10) C

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