

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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