

AT7 Chapter 46 A6 13 Questions

CAN and Network Communications

1. What are the three categories of in-vehicle network communications according to SAE standards?

- A. Class X, Class Y, Class Z
- B. Class A, Class B, Class C
- C. Class 1, Class 2, Class 3
- D. Class Alpha, Class Beta, Class Gamma

2. What are the three common types of networks used on vehicles?

- A. Ring link, star link, and hybrid link
- B. Ring link, star link, and mesh link
- C. Star link, mesh link, and hybrid link
- D. Mesh link, hybrid link, and tree link

3. What type of communication protocol do Ford vehicles use for some modules?

- A. CAN
- B. SCP
- C. UBP
- D. CCD

4. What type of network is the Chrysler Collision Detection (CCD) multiplex network used for?

- A. Scan tool and module communications
- B. GPS tracking and navigation
- C. Audio and entertainment system
- D. Climate control and HVAC system

5. What is the baud rate of the PCI BUS used in Chrysler vehicles?

- A. 9,600 bps
- B. 10,200 bps
- C. 11,200 bps
- D. 12,200 bps

6. What is the voltage signal of the PCI BUS when it is functioning and not shorted-to-ground?

- A. 0 volt
- B. 1 volt
- C. 2.5 volts
- D. 5 volts

7. What is the highest speed CAN protocol required for all vehicles sold in the United States since 2008?

- A. CAN A
- B. CAN B
- C. CAN C
- D. CAN D

8. What is the purpose of the 120 ohm resistor used in CAN networks?

- A. To increase electrical noise
- B. To reduce electrical noise
- C. To increase the number of modules that can be supported
- D. To decrease the number of modules that can be supported

9. What is the main advantage of CAN protocol over other communication protocols used in vehicles?

- A. It is slower
- B. It is more expensive
- C. It is more affected by EMI
- D. It is message-based rather than address-based

10. Which of the following is NOT a BUS protocol used in vehicles?

- A. ISO 9141-2
- B. CAN
- C. LIN
- D. I2C

11. What is needed to access many BUS messages in a vehicle?

- A. A screwdriver
- B. A hammer
- C. A factory or aftermarket scan tool
- D. A pair of pliers

12. What should be done when a network communications fault is suspected in a vehicle?

- A. Nothing, it will fix itself
- B. Check only the components that are not working
- C. Perform module status tests and check the resistance of terminating resistors
- D. Replace all the components in the network

13. What tool can be used to monitor the waveforms of the BUS circuit in a vehicle?

- A. A hammer
- B. A screwdriver
- C. A digital multimeter
- D. A digital storage oscilloscope

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1. B

2. A

3. B

4. A

5. B

6. B

7. C

8. B

9. D

10. D

11. C

12. C

13. D