Automotive Electrical and Engine Performance 9th Edition Chapter 21 – Body Electrical Accessories Multiple Choice Questions Quiz B

- 1. What is the primary purpose of the Body Control Module (BCM) in a modern vehicle's electrical system?
- a. To operate the engine's fuel injection system
- b. To control lighting, wipers, and other accessory functions
- c. To monitor and control engine temperatures
- d. To manage the transmission shift points
- 2. How do modern horns generate sound?
- a. By vibrating a diaphragm through rapid armature circuit switching
- b. By rotating a small motor to produce oscillations
- c. By emitting a controlled AC ripple through the speaker system
- d. By using pressurized air directed through a trumpet mechanism
- 3. What is the purpose of the rain-sense module in windshield wipers?
- a. To detect water and adjust the wiper speed accordingly
- b. To provide fixed intervals for intermittent wiping
- c. To disable wipers during low-speed driving
- d. To synchronize wiper movements with headlight operation
- 4. In vehicles with computer-controlled windshield wipers, what input is necessary for the wipers to function properly?
- a. Brake switch signal
- b. Alternator voltage output
- c. Driver command through the combination switch
- d. Coolant temperature



- 5. How is the blower motor speed adjusted in a traditional system?
- a. By changing the resistance in the motor windings
- b. Through a series of resistors in the blower motor resistor pack
- c. Using a potentiometer to vary motor current directly
- d. By applying high-frequency pulses to the motor terminals
- 6. What is the function of the park switch in windshield wipers?
- a. To shut off the wipers as soon as they reach the driver's selected position
- b. To control the wiper relay during high-speed operation
- c. To ensure the wipers stop at a defined park position on the windshield
- d. To reset the wiper motor after each cycle
- 7. What diagnostic tool is commonly used to troubleshoot faulty horns in vehicles equipped with BCM-controlled systems?
- a. Analog multimeter
- b. Oscilloscope
- c. Frequency counter
- d. Bidirectional scan tool
- 8. What key feature differentiates variable-delay wipers from older wiper systems?
- a. Use of a mechanical timer to control the interval
- b. Use of the BCM and capacitive sensing for interval adjustment
- c. Integration with the rain-sense module for real-time delay adjustment
- d. Increased wiper motor resistance for energy efficiency



- 9. Which of the following is NOT a component of a rear defogger system?
- a. Heating elements baked onto the glass
- b. Timer relay
- c. Driver-operated control switch
- d. Dedicated alternator circuit
- 10. What safety feature is mandated by law for power windows to prevent injury?
- a. Child safety locks on all switches
- b. Automatic reversal systems (ARS) to retract upon obstruction
- c. Limit switches for precise control
- d. Low-voltage operation mode



Automotive Electrical and Engine Performance 9th Edition Chapter 21 – Body Electrical Accessories Answer Key Quiz B

Correct Answers:

- 1. b
- 2. a
- 3. a
- 4. c
- 5. b
- 6. c
- 7. d
- 8. c
- 9. d
- 10. b

