Automotive Technology 7th Edition
Chapter 105
Multiple Choice Quiz B

Name: _____ Date: _____

1. What does the ABS control pressure increase stage involve?
A. The reapplication of brake pressure during ABS braking
B. The venting of pressure from the brake circuit
C. The storage of brake fluid in the accumulator
D. The generation of power assist for normal braking

2. What is the function of the modulator valves in the hydraulic modulator assembly?
A. To store pressure in the accumulator
B. To open and close passageways between the master cylinder and brake circuits
C. To generate power assist for normal braking
D. To maintain brake fluid pressure for hill assist

3. How does the electronic brake control module reduce rear-wheel brake pressure in DRP or EBD systems?
A. By monitoring the wheel speed sensors and commanding solenoid valves
B. By engaging the high-pressure electric pump
C. By activating the hill start assist feature
D. By closing the isolation solenoid

4. What triggers the activation of hill start assist?
A. The electronic brake control module determining the driver wishes to move downhill
B. The brake pressure sensors detecting a certain pressure level
C. The electronic brake control module determining the driver wishes to move uphill
D. The wheel speed sensors detecting vehicle movement

5. In ABS systems, what is the typical function of the pump motor and accumulator?
A. To vent pressure from the brake circuit
B. To generate power assist for normal braking and reapply brake pressure
C. To store brake fluid during the hold-release-reapply cycle
D. To maintain brake fluid pressure in the system

6. What is the result of the ABS controller maintaining brake fluid pressure in the system when the vehicle is stopped on a hill?
A. The brakes are applied until the driver releases the brake pedal
B. The vehicle will roll back when the brake pedal is released
C. The ABS system will engage in an emergency stop
D. The tire pressure monitoring system is activated

7. What is indicated by a TPMS warning light that stays on until air is added to the tire and the ignition is cycled off and on?
A. The tire is rotating freely
B. The tire is locked and skidding
C. The tire is slipping at an optimal rate
D. The tire pressure is below a threshold value

8. Which of the following is a characteristic of the hold-release-reapply cycle in ABS operation?
A. It occurs only once per braking event
B. It repeats as needed until the vehicle comes to a halt or the brake pedal is released
C. It is independent of the vehicle's speed
D. It is controlled solely by the wheel speed sensors

9. What is the primary benefit of the ABS system applying the wheel brakes individually for electronic stability control?
A. To improve vehicle stability while braking in cornering maneuvers
B. To maintain constant brake fluid pressure
C. To store brake fluid in the accumulator
D. To generate power assist for normal braking

10. What is the typical consequence of a pulsating brake pedal during normal braking in ABS-equipped vehicles?
A. It indicates a malfunction in the ABS system
B. It is a characteristic feature of most ABS-equipped vehicles
C. It suggests that the brakes are applied too late to stop the vehicle
D. It is a sign that the vehicle is entering a corner too fast

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Answer Key

1. A

2. B

3. A

4. C

5. B

6. A

7. D

8. B

9. A

10. B