Automotive Technology 7th Edition
Chapter 104
Multiple Choice Quiz A

Name: _____ Date: _____

1. What is the minimum engine vacuum required for the proper operation of a vacuum brake booster?
A. 15 in. Hg vacuum
B. 17 in. Hg vacuum
C. 19 in. Hg vacuum
D. 21 in. Hg vacuum

2. A defective vacuum brake booster is most likely to cause which of the following pedal conditions?
A. Hard brake pedal
B. Soft (spongy) brake pedal
C. Low brake pedal
D. Slight hiss noise when the brake pedal is depressed

3. What should happen to a depressed brake pedal when starting the engine if the vacuum brake booster is functioning properly?
A. The pedal should rise.
B. The pedal should not move.
C. The pedal should drop.
D. The pedal should vibrate.

4. Which of the following could be caused by an improperly adjusted booster pushrod?
A. Brakes to overheat
B. A soft pedal
C. A low pedal
D. None of these

5. What does an accumulator in a hydraulic brake booster do?
A. Reduces brake pedal noise
B. Provides higher force being fed back to the driver's foot
C. Provides a reserve in the event of a failure
D. Works against engine vacuum

6. The typical vacuum booster has a power chamber separated into two smaller chambers by a:
A. Gasket
B. Check valve
C. Wire mesh
D. Flexible diaphragm

7. When the brakes are released, the booster has _____ on both sides of the power piston.
A. Brake fluid
B. Vacuum
C. Atmospheric pressure
D. None of the above

8. A power brake booster provides which of the following design features?
A. Reduced stopping distance
B. Reduced brake pedal effort
C. High brake pedal effort
D. A lower brake pedal position

9. What is the purpose of a Brake Assist System (BAS)?
A. To reduce the noise during braking
B. To apply the brakes with maximum force during a panic stop
C. To assist in parking the vehicle
D. To maintain brake fluid levels

10. What should occur during a Hydro-Boost function test when the engine is started?
A. The pedal should fall and then push back against the driver’s foot.
B. The pedal should rise and then drop to the floor.
C. The pedal should remain stationary.
D. The pedal should pulsate.

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Answer Key

1. A

2. A

3. C

4. D

5. C

6. D

7. B

8. B

9. B

10. A