

Automotive Technology 7th Edition
Chapter 102
Multiple Choice Quiz A

Name: _____ Date: _____

1. What is the maximum hand force required by FMVSS 135 to apply the parking brake on a fully loaded vehicle on a slope?
 - A. 50 pounds
 - B. 80 pounds
 - C. 100 pounds
 - D. 120 pounds

2. What type of brake system must a parking brake hold stationary according to FMVSS 135?
 - A. An empty vehicle on a flat surface
 - B. A fully loaded vehicle on a 20% grade
 - C. A half-loaded vehicle on a 10% grade
 - D. Any vehicle on a 30% grade

3. Which component is used to lock parking brakes in the applied position?
 - A. Control rod
 - B. Vacuum servo
 - C. Ratchet mechanism
 - D. Release cable

4. What is the correct action to release a parking brake that is engaged by a foot pedal?
 - A. Pushing the pedal further
 - B. Pulling on a release lever
 - C. Turning the vehicle off and on
 - D. Pumping the service brake

5. According to the document, what is the correct number of clicks when applying the parking brake?
 - A. Up to 10
 - B. Less than 5
 - C. Exactly 15
 - D. No more than 20

6. What should be done before adjusting the parking brake cable?
 - A. Lubricate the cable
 - B. Replace the control cables
 - C. Check the vacuum servo
 - D. Inspect and adjust the rear brakes

7. What does a swollen parking brake cable typically indicate?
 - A. Proper lubrication
 - B. A need for adjustment
 - C. Potential issues
 - D. Correct installation

8. Technician A says that the parking brake hand lever can turn on the red brake warning lamp. Technician B says that a foot-operated parking brake can turn on the red brake warning lamp. Which technician is correct?

- A. Technician A only
- B. Technician B only
- C. Both Technicians A and B
- D. Neither Technician A nor B

9. In a typical integral rear disc brake caliper, what does the parking brake cable move?

- A. Caliper
- B. Actuator screw
- C. Auxiliary piston
- D. Thrust screw plate

10. What is the purpose of the parking brake "Click" Test?

- A. To check the strength of the parking brake cable
- B. To diagnose brake problems based on the number of clicks
- C. To measure the length of the parking brake cable
- D. To test the ratchet mechanism's sound

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Answer Key

1. B

2. B

3. C

4. B

5. A

6. D

7. C

8. C

9. B

10. B