

Automotive Technology 7th Edition
Chapter 100
Multiple Choice Quiz B

Name: _____ Date: _____

1. What is the function of the bent tabs on some brake pads?
 - A. To hold the brake pads to the caliper housing
 - B. To prevent vibration
 - C. To prevent noise
 - D. To increase the friction material

2. Why are the lining edges of some brake pads tapered?
 - A. To help prevent vibration
 - B. To increase the surface area
 - C. To improve heat dissipation
 - D. To enhance the aesthetic appeal

3. What is the purpose of mold-bonded linings in disc brake pads?
 - A. To reduce manufacturing costs
 - B. To improve heat dissipation
 - C. To increase the bond strength between the lining and backing plate
 - D. To create a decorative pattern on the pad

4. How does the square-cut O-ring in a disc brake caliper function?
 - A. It holds the brake shoes in place
 - B. It adjusts the brake shoes
 - C. It pulls the caliper piston back into the bore when brakes are released
 - D. It lubricates the wheel cylinder

5. What is the role of the quick-take-up master cylinder in a disc brake system?
 - A. To compensate for the need for greater brake fluid volume
 - B. To reduce the volume of brake fluid needed
 - C. To increase the brake fluid pressure
 - D. To decrease the brake fluid pressure

6. What is the result of gas fade in disc brakes?
 - A. The pedal becomes soft
 - B. The pedal becomes hard and increased force is required to maintain stopping power
 - C. The brakes become more efficient
 - D. The brake pads wear out more quickly

7. What is lining fade in disc brakes?
 - A. A condition where the brake pads become too hot and their friction coefficient drops
 - B. A condition where the brake pads become too cold
 - C. A condition where the brake pads become too thick
 - D. A condition where the brake pads become too thin

8. What is the significance of the swept area in disc brakes?

- A. It is the area that is not in contact with the brake pads
- B. It is the area that is in contact with the brake pads
- C. It is the area that is cleaned by the brake pads
- D. It is the area that is lubricated by the brake fluid

9. What is the effect of the V-shaped cutout in the square-cut O-ring of a disc brake caliper?

- A. It increases the brake fluid volume needed
- B. It decreases the brake fluid volume needed
- C. It prevents the caliper piston from retracting
- D. It allows the O-ring to deflect more and pull the caliper piston back into the bore

10. What is the primary symptom of lining fade in disc brakes?

- A. A soft brake pedal
- B. A hard brake pedal that requires the driver to apply greater force to maintain stopping power
- C. A vibrating brake pedal
- D. A squealing noise from the brakes

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Answer Key

1. C

2. A

3. C

4. C

5. A

6. B

7. A

8. B

9. D

10. B