Automotive Technology 7th Edition
Chapter 100: Disc Brakes
Short Answer Quiz

Name: Date:

1. What is the main design feature of disc brakes that helps avoid heat-induced fade, and how does it work?

2. Describe the process and benefits of mold-bonded linings in disc brake pads.

3. Explain the difference between mechanical and electrical pad wear indicators and how they signal the need for service.

4. What is gas fade, and why are disc brakes less prone to this issue compared to drum brakes?

5. How does the design of a low-drag caliper contribute to reduced brake pad drag, and what compensatory design is used in the master cylinder?

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6. Discuss the advantages and disadvantages of integrally molded brake pads compared to other assembly methods.

7. What is the purpose of the tapered ends on some brake pad linings, and how do they help prevent issues?

8. Explain the role of the square-cut O-ring in a disc brake caliper and how it affects the movement of the brake pads.

9. Describe the significance of the swept area in the context of disc brake cooling and fade resistance.

10. What are the symptoms and consequences of lining fade in disc brakes, and how does it differ from the similar condition in drum brakes?