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?

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

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

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

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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.

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

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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.

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

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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?

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