Automotive Technology 7th Edition
Chapter 22: Turbocharging and Supercharging
Short Answer Quiz

Name: _____ Date: _____

1. Describe the concept of volumetric efficiency and its significance in engine performance.

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2. Differentiate between naturally (or normally) aspirated engines and forced induction systems.

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3. Explain the principle and advantages of forced induction in engines.

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4. Discuss the main differences between superchargers and turbochargers.

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5. What is turbo lag, and how does it affect engine performance?

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6. Outline the role and benefits of an intercooler in turbocharged systems.

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7. Explain the concept of boost control and its importance in turbocharged engines.

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8. Discuss the primary causes and implications of turbocharger failures.

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9. Describe the function and operation of a wastegate in a turbocharged system.

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10. What is the role of a bypass valve in supercharged systems, and how does it differ from a BOV (Blow-Off Valve)?

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