

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. What is the primary advantage of using forced induction systems in engines?

- A. Reducing engine noise
- B. Improving fuel economy
- C. Enhancing throttle response
- D. Increasing engine power output

2. Which component in turbochargers utilizes exhaust gases to operate?

- A. Compressor
- B. Intercooler
- C. Turbine
- D. Bypass valve

3. What is the main role of a compressor in a turbocharged system?

- A. Generate exhaust gases
- B. Cool the intake air
- C. Pressurizes the intake air
- D. Reduce air pressure

4. Why is an intercooler used in many turbocharged engines?

- A. To increase exhaust gas temperature
- B. To reduce intake air temperature
- C. To compress the intake air
- D. To increase fuel efficiency

5. Turbo lag is primarily associated with:

- A. Superchargers
- B. Intercoolers
- C. Compressors
- D. Turbochargers

6. Which component in a turbocharger system helps regulate turbo boost pressure?

- A. Intercooler
- B. Wastegate
- C. Compressor
- D. Bypass valve

7. In supercharging, the compressor is driven directly by:

- A. Exhaust gases
- B. Engine's crankshaft
- C. Electric motor
- D. Intake air

8. Which term best describes the efficiency with which an engine can draw air into the combustion chamber?

- A. Compression efficiency
- B. Boost efficiency
- C. Airflow efficiency
- D. Volumetric efficiency

9. Which of the following is NOT an advantage of using turbocharging or supercharging?

- A. Increased engine power output
- B. Improved throttle response
- C. Reduced intake air temperature
- D. Enhanced exhaust sound

10. Which of these relief valves is noisy in operation?

- A. Bypass valve
- B. Blow-off valve
- C. Both are noisy
- D. Both are quiet

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Chapter 22

Multiple Choice Quiz B

Answer Key

1. D

2. C

3. C

4. B

5. D

6. B

7. B

8. D

9. C

10. B