

Name: _____

Date: _____

1. What is the primary advantage of using forced induction systems in engines?
 - A. Reducing engine size
 - B. Lowering fuel consumption
 - C. Increasing engine power output
 - D. Enhancing exhaust sound

2. Which of the following is NOT a method of forced induction?
 - A. Volumetric charging
 - B. Turbocharging
 - C. Supercharging
 - D. Twin charging

3. Which component compresses the intake air in turbochargers using exhaust gases?
 - A. Intercooler
 - B. Supercharger
 - C. Turbine
 - D. Wastegate

4. What is the primary function of an intercooler in turbocharged systems?
 - A. Increase air pressure
 - B. Reduce air temperature
 - C. Filter the air
 - D. Generate more exhaust gases

5. Which of the following systems is driven directly by the engine's crankshaft?
 - A. Turbocharger
 - B. Supercharger
 - C. Intercooler
 - D. Turbine

6. The delay between the driver accelerating and the turbocharger delivering increased air pressure is known as:
 - A. Turbo pressure
 - B. Turbo delay
 - C. Turbo lag
 - D. Turbo boost

7. Which component in a turbocharged system diverts excess exhaust gases away from the turbine?
 - A. Intercooler
 - B. Compressor
 - C. Bypass valve
 - D. Wastegate

8. In turbocharged systems, what role does the compressor play?

- A. It cools down the intake air.
- B. It pressurizes the intake air.
- C. It controls the amount of exhaust gases.
- D. It filters the intake air.

9. Which term describes the maximum amount of air an engine can take in during one complete engine cycle?

- A. Turbo efficiency
- B. Volumetric efficiency
- C. Boost efficiency
- D. Air efficiency

10. What is the primary difference between a bypass valve and a blow-off valve (BOV)?

- A. Bypass valve releases air back into the intake, while BOV releases it to the atmosphere.
- B. BOV releases air back into the intake, while bypass valve releases it to the atmosphere.
- C. Both release air back into the intake.
- D. Both release air to the atmosphere.

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Chapter 22

Multiple Choice Quiz A

Answer Key

1. C

2. A

3. C

4. B

5. B

6. C

7. D

8. B

9. B

10. A