

Name: _____

Date: _____

1. What is the primary purpose of air intake filtration in an engine?
 - A. To cool the engine
 - B. To increase the volume of air intake
 - C. To remove contaminants from the air
 - D. To regulate the air pressure

2. How does air movement into an engine primarily occur?
 - A. Due to a forced air system
 - B. Due to high pressure in the environment
 - C. Due to low pressure (vacuum) created in the engine
 - D. Due to exhaust system operations

3. Which component is responsible for cleaning impurities from gasoline?
 - A. Air cleaner
 - B. Fuel filter
 - C. Intake manifold
 - D. Exhaust manifold

4. What is one of the main roles of the air cleaner and filter?
 - A. Increase air temperature
 - B. Silence intake noise
 - C. Regulate fuel flow
 - D. Enhance air pressure

5. For every gallon of gasoline burned in an automotive engine, approximately how many gallons of air are used?
 - A. 100 gallons
 - B. 1,000 gallons
 - C. 9,000 gallons
 - D. 90,000 gallons

6. What is the primary function of the intake valve?
 - A. Release exhaust gases
 - B. Mix air with fuel
 - C. Regulate fuel pressure
 - D. Allow air into the combustion chamber

7. What happens when there's a pressure differential between the atmosphere and the inside of the engine?
 - A. Fuel is released from the engine
 - B. Air is forced out of the engine
 - C. Air is forced into the engine
 - D. The engine stops operating

8. In the context of air intake, what does the term "plenum" refer to?

- A. The upper chamber of a two-piece manifold
- B. An air filter type
- C. A chamber that stores excess air
- D. An exhaust component

9. What is the primary role of the EGR (Exhaust Gas Recirculation) passage?

- A. To recirculate a portion of exhaust gases back to the engine's combustion chamber
- B. To increase engine power
- C. To filter exhaust gases
- D. To cool the exhaust gases

10. Which component is responsible for directing exhaust gases out of the engine?

- A. Intake manifold
- B. Exhaust manifold
- C. Fuel filter
- D. Air cleaner

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Chapter 21

Multiple Choice Quiz A

Answer Key

1. C

2. C

3. B

4. B

5. C

6. D

7. C

8. A

9. A

10. B