

Automotive Technology 7th Edition
Chapter 21: Intake and Exhaust Systems
Short Answer Quiz

Name:

Date:

1. Describe the structure and function of a typical exhaust system, including the role of heat shields and hangers in isolating exhaust system vibrations from the vehicle body.
2. Discuss the purpose of the small hole often found in mufflers and explain how it relates to water production in the exhaust system.
3. Describe the difference between the roles of intake manifolds and exhaust manifolds in engine operation.
4. Discuss the purpose and benefits of exhaust gas recirculation passages in modern engines.
5. Outline the functions and significance of the Helmholtz resonator in the intake system.

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6. Elucidate the role and importance of the EGR (Exhaust Gas Recirculation) system in reducing harmful emissions.

7. Describe the primary functions and benefits of the Plenum in the intake system.

8. Differentiate between the roles of the air cleaner and the oil filter in the context of engine performance and longevity.

9. Discuss the importance of proper air filtering in preserving engine components and ensuring efficient operation.

10. What is the role of atmospheric pressure in driving air into the combustion chamber, and how does it influence engine performance?