

Automotive Technology 7th Edition
Chapter 18: Cooling System Operation and Diagnosis
Short Answer Quiz

Name:

Date:

1. Describe the primary functions and importance of the cooling system in an engine.
2. Explain the principle of operation behind thermostats and their role in the cooling system.
3. How do radiators assist in maintaining the temperature balance in an engine, and what are their primary components?
4. Discuss the significance of pressure caps in the cooling system and how they influence the system's overall performance.
5. Explain the operation and purpose of coolant recovery systems in modern engines.

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6. Detail the role of water pumps in the circulation of coolant and how their design impacts cooling efficiency.

7. Discuss the differences between parallel flow systems, series flow systems, and series-parallel flow systems in the context of coolant flow.

8. Explain the purpose and working mechanism of cooling fans in the cooling system.

9. Describe the function of heater cores and how they are integrated into the cooling system of a vehicle.

10. What is a P0128 diagnostic trouble code (DTC), and what are its common causes in the context of the cooling system?