Automotive Technology 7th Edition
Chapter 24
Multiple Choice Quiz B

Name: _____ Date: _____

1 What is the primary goal of a thermostat in an engine?
A. To increase the engine's temperature.
B. To regulate the engine's temperature by controlling coolant flow.
C. To cool the engine rapidly.
D. To monitor the engine's oil level.

2. Which diagnostic trouble code (DTC) is associated with the engine coolant temperature not reaching the specified level due to a thermostat issue?
A. P0101
B. P0110
C. P0125
D. P0128

3. Why should the jiggle valve in a thermostat be oriented towards the top?
A. To regulate coolant flow.
B. To ensure a tight seal.
C. To allow air to escape.
D. To increase thermostat efficiency.
Answer: c

4. Before replacing a thermostat, it's essential to:
A. Check if the engine oil needs replacement.
B. Assess the brand of the thermostat.
C. Ensure that other cooling system issues are not causing the problem.
D. Determine the age of the thermostat.

5. A skewed thermostat:
A. Is always stuck in the closed position.
B. Operates outside the correct temperature range.
C. Is always stuck in the open position.
D. Is misaligned but operates efficiently.

6. In the context of hybrid engines, what does the term "EREV" stand for?
A. Electrically Regulated Engine Vehicle.
B. Engine Regulated Electric Vehicle.
C. Extended Range Electric Vehicle.
D. Enhanced Regulated Engine Vehicle.

7. What is one significant concern associated with gasoline direct-injection engines?
A. Reduced fuel efficiency.
B. Carbon buildup on the intake valves.
C. Frequent need for oil changes.
D. Overheating of the transmission system.

8. If a thermostat fails and is stuck partially open, what would be a likely consequence?
A. The engine would reach its optimal temperature rapidly.
B. The engine would cool down quickly.
C. The engine would take longer to warm up or might not warm up at all.
D. The engine would maintain an optimal temperature consistently.

9. What is the significance of the term "Idle stop" in the context of hybrid engines?
A. It's the process of turning off the engine when the vehicle is stationary.
B. It represents the highest temperature the engine can reach.
C. It's the lowest RPM at which the engine operates.
D. It's the process of reducing fuel supply when the engine isn't under load.

10. What does the term "Fretting" refer to in the context of this chapter?
A. A method to clean engine components.
B. A type of corrosion due to slight movement between two contacting surfaces.
C. A technique to enhance engine efficiency.
D. A process to coat engine parts.

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Answer Key

1. B

2. D

3. C

4. C

5. B

6. C

7. B

8. C

9. A

10. B