

Automotive Electrical and Engine Performance 9th Edition
Chapter 7 – In-Vehicle Engine Service
Quiz B

1. What are the four basic functions of a vehicle computer?
 - a. Input, processing, storage, and output
 - b. Reading, printing, timing, and output
 - c. Memory allocation, processing, resetting, and storage
 - d. Voltage conversion, memory, input, and calibration

2. A skewed thermostat means it is _____.
 - a. Contaminated with coolant
 - b. Not functioning
 - c. Working, but not at the correct temperature
 - d. Missing thermo wax in the heat sensor

3. What sound is commonly produced by a gasoline direct-injected engine during operation?
 - a. Whirring
 - b. Strong exhaust smells
 - c. Clicking noise
 - d. Vibrations

4. What causes water pumps to fail in providing proper coolant flow?
 - a. Leaking coolant from the weep hole
 - b. A noisy bearing
 - c. Worn or slipping impeller blades
 - d. Shaft looseness from bearing failure

5. What can lead to the failure of intake manifold gaskets in V-type engines?
- a. Incorrect torque application
 - b. Contamination from hybrid oils
 - c. Relative movement between the intake manifold and cylinder head
 - d. Coolant deterioration of nylon gaskets
6. What diagnostic trouble code (DTC) indicates a thermostat malfunction related to engine coolant temperature?
- a. P0171
 - b. P0128
 - c. P0300
 - d. P0172
7. When adjusting engine valves, what is the recommended initial step?
- a. Referencing service specifications for procedures
 - b. Removing the valve cover
 - c. Ensuring camshaft alignment with the base circle
 - d. All of the above
8. For plastic intake manifolds, torque specifications are often measured in _____.
- a. Pound-inches
 - b. Pound-feet
 - c. Kilogram-meters
 - d. Newton-meters
9. What additional components are recommended for replacement when changing a timing belt?
- a. Tensioner assembly
 - b. Camshaft oil seals
 - c. Water pump
 - d. All of the above

10. What is the typical oil viscosity specified for hybrid electric vehicles?

- a. SAE 5W-30
- b. SAE 0W-16
- c. SAE 5W-20
- d. SAE 10W-40

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Correct Answers:

1. a

2. c

3. d

4. c

5. b

6. d

7. b

8. a

9. c

10. d