Automotive Electrical and Engine Performance 8th 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



c. Worn or slipping impeller blades

d. Shaft looseness from bearing failure

b. A noisy bearing

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



Automotive Electrical and Engine Performance 8th Edition Chapter 7 – In-Vehicle Engine Service Quiz B

Correct Answers:

- 1. a
- 2. c
- 3. d
- 4. c
- 5. b
- 6. d
- 7. b
- 8. a
- 9. c
- 10. d

