

Automotive Engines 10th

Quiz 22A

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1. Technician A says to use lineman's gloves when servicing the high voltage system on hybrid electric vehicles. Technician B says that some hybrid vehicles require high-viscosity engine oil. Which technician is correct? 1. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

2. A defective thermostat can cause the powertrain control module (PCM) to set what diagnostic trouble code (DTC)? 2. _____
 - A) P0171
 - B) P0172
 - C) P0128
 - D) P0300

3. A gasoline direct-injection engine has a light ticking sound when running. What should the technician do to correct this noise? 3. _____
 - A) Change the oil
 - B) Nothing, the noise is normal
 - C) Check for carbon deposits on top of the pistons
 - D) Check for vacuum leaks

4. A technician is preparing to do an oil change on a hybrid vehicle. What special precaution needs to be taken BEFORE performing this service? 4. _____
 - A) Make sure the ignition is "OFF" and the key is removed from the ignition switch.
 - B) Leave the hood closed when draining the oil
 - C) Do not lift the vehicle more than 12 inches off the floor
 - D) Disconnect any orange colored wiring harnesses

5. What steps are needed to adjust valves? 5. _____
 - A) Check service information for the exact procedure to follow
 - B) Remove the valve (cam) cover
 - C) Rotate the engine until the rocker arm or lifter is contacting the base circle of the cam
 - D) All of the above

6. A water pump can fail provide the proper amount of coolant flow through the cooling system if what has happened? 6. _____
 - A) The coolant is leaking from the weep hole
 - B) The bearing is noisy
 - C) The impeller blades are worn or slipping on the shaft
 - D) A bearing failure has caused the shaft to become loose

7. A thermostat can fail in which way? 7. _____
 - A) Stuck open
 - B) Stuck closed
 - C) Stuck partially open
 - D) Any of the above

8. Technician A uses a steel gasket scraper on aluminum engine parts. Technician B uses a plastic or wood scraper on aluminum engine parts. Which technician is correct? 8. _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
9. When changing a timing belt it is recommended that the _____ also be replaced. 9. _____
- A) air filter
 - B) front crankshaft seal
 - C) air pump seal
 - D) air intake hoses
10. Coolant leaking from an intake manifold can evaporate fast enough to leave no trace of a leak. 10. _____
- A) True
 - B) False

Answer Key

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1. A
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2. C
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3. B
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4. A
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5. D
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6. C
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7. D
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9. B
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