

Name \_\_\_\_\_

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

- 1) When torquing intake manifold bolts, what is the proper sequence? 1) \_\_\_\_\_
  - A) From the center to the outer ends
  - B) From both ends, then in towards the center
  - C) From one end to the other end
  - D) The sequence is not important
  
- 2) What factor causes intake manifold gaskets on a V-type engine to fail? 2) \_\_\_\_\_
  - A) Fretting
  - B) Coolant damage
  - C) Relative movement between the intake manifold and the cylinder head
  - D) All of the above
  
- 3) Before removing a timing belt what should the technician do? 3) \_\_\_\_\_
  - A) Remove the water pump
  - B) Align the timing marks
  - C) Lock the transmission in 1st gear
  - D) Disconnect the speedometer cable
  
- 4) Hybrid electric vehicles usually require special engine oil of what viscosity? 4) \_\_\_\_\_
  - A) SAE 5W-30
  - B) SAE 10W-30
  - C) SAE 0W-20
  - D) SAE 5W-40
  
- 5) Coolant drained from the cooling system when replacing a thermostat or water pump should be \_\_\_\_\_ 5) \_\_\_\_\_
  - A) Reused
  - B) Disposed of properly or recycled
  - C) Poured down a toilet
  - D) Filtered and reinstalled after the repair
  
- 6) A thermostat can fail in which way? 6) \_\_\_\_\_
  - A) Stuck open
  - B) Stuck closed
  - C) Stuck partially open
  - D) Any of the above
  
- 7) What is the proper tool used to measure valve clearances? 7) \_\_\_\_\_
  - A) Feeler gauge
  - B) Dial gauge
  - C) Vernier caliper
  - D) Micrometer

- 8) On some engines equipped with a timing belt, the belt also may drive the \_\_\_\_\_. 8) \_\_\_\_\_
- A) Water pump
  - B) Alternator
  - C) AC compressor
  - D) Power steering
- 9) A water pump can fail to provide the proper amount of coolant flow through the cooling system if what has happened? 9) \_\_\_\_\_
- 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
- 10) The torque specification for many plastic intake manifolds are in what unit? 10) \_\_\_\_\_
- A) Pound-inches
  - B) Pound-feet
  - C) Ft-lbs per minute
  - D) Lb-ft per second

## Answer Key

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- 1) A  
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- 2) D  
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- 3) B  
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- 4) C  
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- 5) B  
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- 6) D  
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- 7) A  
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- 8) A  
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- 9) C  
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- 10) A  
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