

Name _____

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

- 1) Which of the following is LEAST likely to create a rattle sound? 1) _____
A) Cracked flex plate
B) Broken harmonic balancer
C) Loose accessory mounts
D) Loose belt tensioner
- 2) Cranking vacuum should be _____. 2) _____
A) 2.5 inches Hg or higher
B) Over 25 inches Hg
C) 17 to 21 inches Hg
D) 6 to 16 inches Hg
- 3) When preparing for a compression test, technician A disables the ignition system. Technician B only removes the spark plug for the cylinder he is testing. Which technician is correct? 3) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician
- 4) The following statements are all correct EXCEPT _____. 4) _____
A) Recommended oil pressure is 1 PSI for every 1000 RPM
B) Oil pressure may be tested by removing the oil pressure sending unit and installing a pressure gauge
C) Oil pressure readings should be made at idle and 2500 RPM
D) Oil pressure testing should be done at normal operating temperature
- 5) A cylinder power balance test is performed on a 4 cylinder engine. Cylinders 1, 2, and 3, all drop 175 RPM when disabled with a scan tool. Cylinder 4 drops 50 RPM when disabled. The following statements are all correct EXCEPT _____. 5) _____
A) Cylinder 4 is much stronger than 1, 2, and 3
B) This test could also be conducted by grounding the plug wire for each cylinder
C) Cylinder 4 is much weaker than 1, 2, and 3
D) There may be a mechanical problem with cylinder 4
- 6) Exhaust back pressure of an engine running at idle should be _____. 6) _____
A) 2.5 PSI
B) Less than 1.5 PSI
C) 2.5 in. Hg
D) 1.5 in. Hg

- 7) Normal engine vacuum at idle is _____. 7) _____
- A) 17-21 in Hg
 - B) 3-6 in Hg
 - C) 120 in Hg
 - D) 3 PSI
- 8) Technician A says that the paper test could detect a burned valve. Technician B says that a grayish white stain could be a coolant leak. Which technician is correct? 8) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 9) Which of the following is NOT a cause of high exhaust back pressure? 9) _____
- A) Vacuum leak
 - B) Restricted catalytic converter
 - C) Restricted muffler
 - D) Restricted exhaust pipe
- 10) While performing a cylinder leakage test, technician A says that 20% leakage is acceptable. Technician B says that a cylinder will show too much leakage if the piston is not at TDC on its compression stroke. Which technician is correct? 10) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

Answer Key

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