

Name _____

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

- 1) Technician A says that lifting the vehicle and turning the steering wheel may help bleed air out of some systems. Technician B says that if this procedure is used, the wheels should be turned from stop to stop. Which technician is correct?
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

- 2) What is the maximum pressure a power steering pump provides during parking?
 - A) 1400 psi
 - B) 500 psi
 - C) 250 psi
 - D) 90 psi

- 3) Integral power steering gears use _____ for lubrication of the unit.
 - A) SAE 80W-90 gear lube
 - B) chassis grease (NLGI #2)
 - C) power steering fluid in the system
 - D) molybdenum disulfide

- 4) Technician A says that some power assist systems use an external cooler for the power steering fluid. Technician B says that the cooler is located in the pressure line, before the steering gear box. Which technician is correct?
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

- 5) A power steering pressure gauge is being used to diagnose a system problem on a rack and pinion system. When the wheels are turned all the way left, a pressure reading less than specification is found. When the gauge valve is closed, the pressure reading is within specifications. Technician A says that the pump pressure regulator is bad. Technician B says that there is a problem in the rack assembly. Which technician is correct?
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

- 6) The power steering fluid is usually contained in a _____ reservoir.
 - A) cast iron
 - B) remote mounted
 - C) flexible
 - D) low mounted

- 7) A partially clogged power steering filter can cause what type of problem?
- A) A noise, especially when cold
 - B) Lack of power assist when the engine is warm
 - C) A power steering fluid leak from the steering gear
 - D) Overflowing of the power steering fluid out of the top of the reservoir
- 8) Where is the rotary control valve located on a power rack and pinion steering gear?
- A) In the rack tube, just behind the rack seal retainers
 - B) Behind the mounting brackets
 - C) Under the dampening adjuster
 - D) Between the steering gear input shaft and the pinion gear
- 9) What law states that pressure on a confined fluid is transmitted equally in all directions and acts with equal force on equal areas?
- A) Pascal's law
 - B) Newton's law
 - C) Martin's law
 - D) Watt's law
- 10) When pressure testing a hydraulic assisted power steering system, the highest pressures were not within 50 psi of each other. This indicates a problem with _____.
- A) the pump rotor
 - B) the pump vanes
 - C) the flow control valve
 - D) a defective hose

Answer Key

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1) C

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2) A

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3) C

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4) A

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5) B

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6) B

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7) A

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8) D

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9) A

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10) C

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