

Name _____

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

- 1) A partially clogged power steering filter can cause what type of problem? 1) _____
 - A) A noise especially when cold
 - B) Lack of power assist from the engine is warm
 - C) A power steering fluid leak form the steering gear
 - D) Overflowing of the power steering fluid out of the top of the reservoir

- 2) A power steering pressure test is being performed, and the pressure is higher than specifications with the engine running and the steering wheel stationary in the straight ahead position. Technician A says that a restricted high pressure line could be the cause. Technician B says that internal leakage inside the steering gear or rack and pinion unit could be the cause. Which technician is correct? 2) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 3) High pressure hoses have to be used on the high pressure side of the power steering system because pressures can reach as high as _____. 3) _____
 - A) 200 psi
 - B) 750 psi
 - C) 1,400 psi
 - D) 2,500 psi

- 4) Where is the rotary control valve located on a power rack and pinion steering gear? 4) _____
 - 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

- 5) What is the maximum pressure a power steering pump provides during parking? 5) _____
 - A) 1400 psi
 - B) 500 psi
 - C) 250 psi
 - D) 90 psi

- 6) What can cause hard steering on a vehicle equipped with a hydraulic power assisted steering system? 6) _____
 - A) Low tire pressure
 - B) Slipping power steering pump drive belt
 - C) Low or contaminated power steering fluid
 - D) Any of the above

- 7) When pressure testing a hydraulic assisted power steering system, the highest pressures were greater than 50 psi of each other. This indicates a problem with _____. 7) _____
- A) the pump rotor
 - B) the pump vanes
 - C) the flow control valve
 - D) a defective hose
- 8) How much effort is typically required to turn the steering wheel on vehicles with power steering? 8) _____
- A) 2-3.5 lbs.
 - B) 5-7 lbs.
 - C) 0.5-1.5 lbs.
 - D) 10 lbs. or more
- 9) What other input(s) do/does the Magnasteer system use to determine the amount of power steering assist needed? 9) _____
- A) Wheel speed sensor
 - B) Mass airflow sensor
 - C) Both A and B
 - D) Neither A nor B
- 10) A power steering system should be checked for _____. 10) _____
- A) power steering fluid level
 - B) condition of the drive belt
 - C) condition of the hoses
 - D) all of the above

Answer Key

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1) A

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2) A

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3) C

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4) D

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5) A

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6) D

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7) C

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8) A

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9) A

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10) D

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