

Name \_\_\_\_\_

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

- 1) What law states that pressure on a confined fluid is transmitted equally in all directions and acts with equal force on equal areas? 1) \_\_\_\_\_
  - A) Pascal's law
  - B) Newton's law
  - C) Martin's law
  - D) Watt's law
  
- 2) Two technicians are discussing the proper procedure for bleeding air from a power steering system. Technician A says that the front wheels of the vehicle should be lifted off the ground before bleeding. Technician B says that the steering wheel should be turned left and right with the engine off during the procedure. Which technician is correct? 2) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
  
- 3) 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? 3) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
  
- 4) 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? 4) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
  
- 5) Technician A says that all vehicles from the same manufacturer use the exact same power steering fluid. Technician B says that some fluids may be incompatible with system seals. Which technician is correct? 5) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B

- 6) Technician A says that the current trend is to use remote power steering fluid reservoirs. Technician B says that using a remote reservoir allows for a more compact power steering pump assembly. Which technician is correct? 6) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
- 7) A power steering system should be checked for \_\_\_\_\_. 7) \_\_\_\_\_
- A) power steering fluid level
  - B) condition of the drive belt
  - C) condition of the hoses
  - D) All of the above
- 8) What can cause hard steering on a vehicle equipped with a hydraulic power assisted steering system? 8) \_\_\_\_\_
- A) Low tire pressure
  - B) Slipping power steering pump drive belt
  - C) Low or contaminated power steering fluid
  - D) Any of the above
- 9) How much effort is typically required to turn the steering wheel on vehicles with power steering? 9) \_\_\_\_\_
- A) 2-3.5 lbs.
  - B) 5-7 lbs.
  - C) 0.5-1.5 lbs.
  - D) 10 lbs. or more
- 10) Where is the rotary control valve located on a power rack and pinion steering gear? 10) \_\_\_\_\_
- 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

## Answer Key

Testname: CHASSIS8\_31B

- 1) A  
Page Ref: 518
- 2) C  
Page Ref: 533
- 3) B  
Page Ref: 535
- 4) C  
Page Ref: 533
- 5) B  
Page Ref: 533
- 6) C  
Page Ref: 519
- 7) D  
Page Ref: 531
- 8) D  
Page Ref: 532
- 9) A  
Page Ref: 519
- 10) D  
Page Ref: 524