

Name \_\_\_\_\_

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

- 1) Technician A says the vacuum supply test involves inspecting the vacuum supply hose for kinks. Technician B says the test involves checking the level of vacuum supplied by the engine or vacuum pump. Which technician is correct? 1) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 2) A hydraulically operated booster unit stores fluid under pressure by means of \_\_\_\_\_. 2) \_\_\_\_\_
  - A) A boost piston
  - B) A pressure chamber
  - C) An actuator
  - D) An accumulator
  
- 3) Two technicians are discussing vacuum brake boosters. Technician A says that when the engine is running and the driver's foot is off the brake pedal, a vacuum is present on both sides of the booster diaphragm. Technician B says that when the brakes are in the applied position, vacuum is present on the front side of the diaphragm. Which technician is correct? 3) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 4) A vacuum is described as any pressure that is higher than atmospheric pressure. 4) \_\_\_\_\_
  - A) True
  - B) False
  
- 5) The power steering pump test determines if the pump produces enough fluid pressure and flow to run the hydro-boost. 5) \_\_\_\_\_
  - A) True
  - B) False
  
- 6) Two technicians are discussing vacuum brake boosters. Technician A says that a low, soft brake pedal is an indication of a defective booster. Technician B says that there should be at least two power-assisted brake applications after the engine stops running. Which technician is correct? 6) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician

7) A dual-diaphragm vacuum booster allows engineers to design a \_\_\_\_\_ brake booster 7) \_\_\_\_\_  
A) Smaller diameter  
B) Lighter weight  
C) Less expensive  
D) Shorter

8) In a power brake system all of the following may be altered to increase application force 8) \_\_\_\_\_  
EXCEPT \_\_\_\_\_.  
A) Inertial force  
B) Mechanical advantage  
C) Pedal force  
D) Hydraulic advantage

9) As the engine piston moves downward on the intake stroke a \_\_\_\_\_ is created in the 9) \_\_\_\_\_  
manifold.  
A) Gas difference  
B) Pressure differential  
C) Mono-pressure front  
D) Dual-pressure difference

10) What component is the technician holding in this photograph? 10) \_\_\_\_\_



- A) Check valve
- B) Vacuum elbow
- C) Charcoal filter
- D) Fluid plug

## Answer Key

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1) C

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2) D

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3) C

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4) B

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5) A

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6) B

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7) A

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8) A

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9) B

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10) A

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