

Name \_\_\_\_\_

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

- 1) Technician A says that the pitman arm is connected to the steering gear. Technician B says that an idler arm is used with all rack and pinion steering linkages. Which technician is correct? 1) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
  
- 2) How much force is generally used to check idler arms? 2) \_\_\_\_\_
  - A) 25 lbs.
  - B) 150 lbs.
  - C) As much as possible
  - D) 5 lbs.
  
- 3) A "dry park" test to determine the condition of the steering components and joints should be performed with the vehicle \_\_\_\_\_. 3) \_\_\_\_\_
  - A) on level ground or on a drive-on lift
  - B) on turn plates that allow the front wheels to move
  - C) on a frame contact lift with the wheels off the ground
  - D) lifted off the ground about 2 inches
  
- 4) Which of the following is NOT a component of a parallelogram-type steering linkage? 4) \_\_\_\_\_
  - A) Pitman arm
  - B) Drag link
  - C) Center link
  - D) Idler arm
  
- 5) Four wheel steering is being discussed. Technician A says that opposite phase steering is best at high speeds. Technician B says that same phase steering is best at low speeds. 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) Which four wheel steering system is best for highway lane changes? 6) \_\_\_\_\_
  - A) Same phase steering
  - B) Opposite phase steering
  - C) Negative phase mode
  - D) None of these

- 7) Two technicians are discussing bump steer. Technician A says that an unlevel steering linkage can be its cause. Technician B says that if the steering wheel moves when the vehicle is bounced up and down, the steering linkage may be bent. Which technician is correct? 7) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
- 8) Which of the following linkage types may be used with a rack and pinion design? 8) \_\_\_\_\_
- A) Parallelogram
  - B) Cross steer
  - C) Haltenberger
  - D) None of these are correct
- 9) Technician A says that torque prevailing nuts can be reused unless damaged. Technician B says that a new cotter key should always be used. Which technician is correct? 9) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
- 10) What is the MOST likely cause of bump steer? 10) \_\_\_\_\_
- A) Worn outer tie rod ends
  - B) A worn center link
  - C) Worn or oil soaked rack bushings
  - D) A lack of proper lubrication of all ball and socket joints

## Answer Key

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