

Name \_\_\_\_\_

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

- 1) How are the inner tie rods attached to the rack on a center take-off type rack and pinion steering gear? 1) \_\_\_\_\_
  - A) Staked
  - B) Bolted
  - C) Riveted
  - D) Pinned
  
- 2) Which of the following steering linkage parts commonly wear(s) out first? 2) \_\_\_\_\_
  - A) Center link
  - B) Pitman arm
  - C) Idler arm
  - D) Inner tie rods
  
- 3) How much force is generally used to check idler arms? 3) \_\_\_\_\_
  - A) 25 lbs.
  - B) 150 lbs.
  - C) As much as possible
  - D) 5 lbs.
  
- 4) A rack and pinion inner tie rod end is often secured by which of these methods?? 4) \_\_\_\_\_
  - A) Riveted or pinned
  - B) Staked
  - C) Either A or B
  - D) Neither A nor B
  
- 5) Which of the following linkage types may be used with a rack and pinion design? 5) \_\_\_\_\_
  - A) Parallelogram
  - B) Cross steer
  - C) Haltenberger
  - D) None of these are correct
  
- 6) Technician A says that the inner tie rod end mounts to the end of the rack on all rack and pinion systems. Technician B says that some rack and pinion systems use inner tie rod ends mounted to the center of the rack. 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) Which of the following terms may be used to describe the center link? 7) \_\_\_\_\_
  - A) Drag link
  - B) Connecting link
  - C) Relay rod
  - D) All of these are correct.

- 8) What steering component dampens and absorbs sudden motions in the steering linkage? 8) \_\_\_\_\_
- A) Steering dampener
  - B) Shock absorber
  - C) Drag link
  - D) None of these
- 9) New tie rods are being installed. Technician A says to tighten the retaining nuts to specification and then loosen, if needed, to align the cotter pin hole. Technician B says to tighten farther to align the cotter key hole. 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) How much end play is usually acceptable in tie rod ends during a dry park test? 10) \_\_\_\_\_
- A) Zero
  - B) 0.0010 to 0.030 in.
  - C) 0.030 to 0.050 in.
  - D) 0.050 to 0.100 in.

## Answer Key

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