

Name \_\_\_\_\_

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

- 1) How much force is generally used to check idler arms? 1) \_\_\_\_\_  
A) 25 lbs.  
B) 150 lbs.  
C) As much as possible  
D) 5 lbs.
  
- 2) How are the inner tie rods attached to the rack on a center take-off type rack and pinion steering gear? 2) \_\_\_\_\_  
A) Staked  
B) Bolted  
C) Riveted  
D) Pinned
  
- 3) Cross steer linkage is found on \_\_\_\_\_. 3) \_\_\_\_\_  
A) sports cars  
B) light trucks and vans  
C) mid-size sedans  
D) none of these
  
- 4) Which of the following terms may be used to describe the center link? 4) \_\_\_\_\_  
A) Drag link  
B) Connecting link  
C) Relay rod  
D) All of these are correct.
  
- 5) Technician A says that outer tie rod ends should be replaced in pairs, even if only one is worn. Technician B says that inner tie rod ends should be replaced in pairs, even if only one is worn. Which technician is correct? 5) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
  
- 6) 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? 6) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician

- 7) Which of the following is NOT a component of a parallelogram-type steering linkage? 7) \_\_\_\_\_
- A) Pitman arm
  - B) Drag link
  - C) Center link
  - D) Idler arm
- 8) Steering linkage joints should be lubricated with \_\_\_\_\_. 8) \_\_\_\_\_
- A) brake fluid
  - B) 20W-50 engine oil
  - C) 80W-90 gear oil
  - D) grease
- 9) A rack and pinion inner tie rod end is often secured by which of these methods? 9) \_\_\_\_\_
- A) Riveted or pinned
  - B) Staked
  - C) Either A or B
  - D) Neither A nor B
- 10) Which of the following linkage types may be used with a rack and pinion design? 10) \_\_\_\_\_
- A) Parallelogram
  - B) Cross steer
  - C) Haltenberger
  - D) None of these are correct.

## Answer Key

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1) A

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2) B

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3) B

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4) D

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5) C

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6) B

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7) B

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8) D

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9) C

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10) D

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