

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 linkage types may be used with a rack and pinion design? 2) \_\_\_\_\_
  - A) Parallelogram
  - B) Cross steer
  - C) Haltenberger
  - D) None of these are correct.
  
- 3) Technician A says that steering linkages with zerk fittings should be greased at least every six months. Technician B says that some steering linkage joints are sealed and do not require regular service. Which technician is correct? 3) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 4) Technician A says that steering ball socket joints do not need lubrication. Technician B says that its a good idea to lubricate steering stops. Which technician is correct? 4) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 5) A vehicle equipped with four-wheel steering will use \_\_\_\_\_ mode when moving at low speeds. 5) \_\_\_\_\_
  - A) same-phase
  - B) single-phase
  - C) opposite-phase
  - D) right-phase
  
- 6) 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? 6) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician

- 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
  - D) Neither technician
- 8) A rack and pinion inner tie rod end is often secured by which of these methods? 8) \_\_\_\_\_
- A) Riveted or pinned
  - B) Staked
  - C) Either A or B
  - D) Neither A nor B
- 9) What steering component dampens and absorbs sudden motions in the steering linkage? 9) \_\_\_\_\_
- A) Steering dampener
  - B) Shock absorber
  - C) Drag link
  - D) None of these
- 10) Which of the following is NOT a component of a parallelogram-type steering linkage? 10) \_\_\_\_\_
- A) Pitman arm
  - B) Drag link
  - C) Center link
  - D) Idler arm