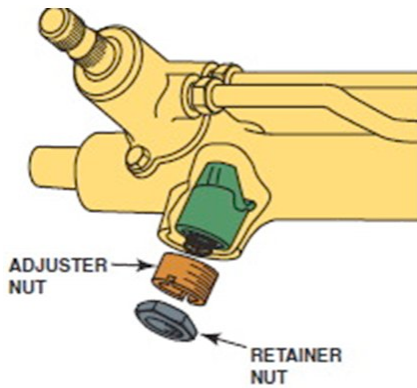


Name _____

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

- 1) Technician A says that the steering system changes rotary motion into lateral motion. Technician B says that steering ratio is influenced by the length of the teeth on the sector gear. 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) What is the purpose of the adjuster nut in this drawing? 2) _____



- A) Used to change rack oil
 - B) Used to set pinion gear end-play
 - C) Used to set rack-and-pinion gear preload
 - D) None of these
- 3) Technician A says that the front wheels are able to rotate through 60–80 degrees of rotation. Technician B says that turning the steering wheel all the way left then all the way right is turning the wheel "lock to lock." Which technician is correct? 3) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
- 4) On a variable ratio sector shaft, the center gear tooth is _____ than the side gear teeth. 4) _____
- A) larger
 - B) smaller
 - C) thinner
 - D) softer

- 5) Recirculating steel balls are used in most conventional steering gears because they _____. 5) _____
- A) provide for a variable ratio
 - B) keep the steering wheel centered
 - C) reduce friction
 - D) help provide feedback to the driver regarding the road surface
- 6) Which conventional steering gear adjustment should be the first performed? 6) _____
- A) Worm bearing preload
 - B) Tolerance adjustment
 - C) Gear mesh preload
 - D) Sector shaft end play
- 7) What is the purpose and function of the air tube connecting the two end boots? 7) _____
- A) To transfer air from one boot to the other when the wheels are turned
 - B) To move grease from one boot to the other to equalize the amount of grease in each boot
 - C) To prevent water from entering the boots
 - D) To keep any fluid from escaping
- 8) The pitman shaft is also called the _____ shaft. 8) _____
- A) sector
 - B) input
 - C) worm
 - D) spline
- 9) Technician A says that vehicle manufacturers use break away steering column mounting brackets to protect the driver in an accident. Technician B says that vehicle manufacturers are required to use collapsible shafts in the steering column. 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 purpose does the flexible coupling attached to the steering column serve? 10) _____
- A) Allows for a change in angle between two shafts
 - B) Acts as a collapsible part of the steering shaft
 - C) Both A and B
 - D) Neither A nor B

Answer Key

Testname: CHASSIS8_29B

1) C

Page Ref: 489, 491

2) C

Page Ref: 498

3) C

Page Ref: 489, 491

4) A

Page Ref: 491

5) C

Page Ref: 492

6) A

Page Ref: 493

7) A

Page Ref: 496

8) A

Page Ref: 489

9) C

Page Ref: 487

10) A

Page Ref: 486