Automotive Technology 6th Edition Quiz 130B

Name\_\_\_\_\_

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

<ol> <li>Technician A says a final drive ratio is a compromise between performance and vehicle speed. Technician B says a final drive ratio that provides a lesser top vehicle speed also provides for slower acceleration. Which technician is correct?         <ul> <li>A) Technician A only</li> <li>B) Technician B only</li> <li>C) Both technicians</li> <li>D) Neither technician</li> </ul> </li> </ol>	1)
<ul> <li>2) The shim used on a drive pinion gear is used to properly position the gear so that it can correctly mesh with the</li> <li>A) ring gear</li> <li>B) side gear</li> <li>C) differential pinion gears</li> <li>D) both B and C</li> </ul>	2)
<ul> <li>3) Two technicians are discussing which lubricants are used in a limited-slip differential. Technician A says to use SAE 80W-140. Technician B says that most vehicle manufacturers usually specify SAE 80W-90 be used with or without special limited-slip additives. Which technician is correct?</li> <li>A) Technician A only</li> <li>B) Technician B only</li> <li>C) Both technicians</li> <li>D) Neither technician</li> </ul>	3)
<ul> <li>4) The backlash is less than specifications (too low). This will cause the ring gear tooth pattern to be too close to the</li> <li>A) heel</li> <li>B) flank</li> <li>C) toe</li> <li>D) face</li> </ul>	4)
<ul> <li>5) Which component allow the rear wheels to turn at different speeds while propelling the vehicle?</li> <li>A) Differential assembly</li> <li>B) Adjustable shims</li> <li>C) Axle bearings</li> <li>D) None of these choices are correct.</li> </ul>	5)
<ul> <li>6) What gears produce the final drive ratio?</li> <li>A) Ring and pinion gear set</li> <li>B) Spider gears</li> <li>C) Countershaft gears</li> <li>D) None of the above is correct.</li> </ul>	6)

<ul> <li>7) Technician A says that the convex side of the ring gear is the drive side on most rear axle assemblies. Technician B says that the convex side of the ring gear is the drive side on differentials used in the front of many four-wheel-drive vehicles. Which technician is correct?</li> <li>A) Technician A only</li> <li>B) Technician B only</li> <li>C) Both technicians</li> <li>D) Neither technician</li> </ul>	7)
<ul> <li>8) The backlash exceeds specifications. The technician should position the ring gear</li> <li>A) closer to the drive pinion gear</li> <li>B) further from the drive pinion gear</li> <li>C) toward the heel</li> <li>D) toward the toe</li> </ul>	8)
<ul> <li>9) Technician A says most limited-slip differentials rely on clutches that connect each side gear to the differential case. Technician B says the inward thrust of the side gears increases as wheel slippage increases. Which technician is correct?</li> <li>A) Technician A only</li> <li>B) Technician B only</li> <li>C) Both technicians</li> <li>D) Neither technicians A nor B</li> </ul>	9)
<ul> <li>10) Where are straight roller bearings used in a rear drive axle?</li> <li>A) Pinion bearings</li> <li>B) Spider gear bearings</li> <li>C) Ring gear bearings</li> <li>D) Axle bearings</li> </ul>	10)

Answer Key Testname: AT6\_130B

- 1) A Page Ref: 1629 2) A Page Ref: 1638 3) B Page Ref: 1642 4) C Page Ref: 1637 5) A Page Ref: 1627 6) A Page Ref: 1629 7) A Page Ref: 1637 8) A Page Ref: 1641 9) A Page Ref: 1630
- 10) D

Page Ref: 1634