

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. What does the "plus 1" concept in tire sizing refer to?
  - A. Increasing the tire's width by 1 inch
  - B. Using wheels 1 inch larger in diameter
  - C. Adding 1 inch to the tire's sidewall height
  - D. Increasing the tire's aspect ratio by 1%
  
2. What is the aspect ratio of a tire?
  - A. The ratio of the tire's width to its height
  - B. The ratio of the tire's height to its diameter
  - C. The ratio of the tire's tread depth to its width
  - D. The ratio of the tire's load index to its speed rating
  
3. What is indicated by the speed rating "T" in a tire labeled 215/60R × 15 92T?
  - A. Tread wear rating
  - B. Temperature resistance rating
  - C. Load rating
  - D. Speed rating
  
4. What are the three major areas of the Uniform Tire Quality Grading System (UTQGS)?
  - A. Tread wear, traction, and temperature resistance
  - B. Tread wear, braking traction performance, and load index
  - C. Tread wear, speed rating, and aspect ratio
  - D. Tread wear, inflation pressure, and tire diameter
  
5. What is the difference between wheel back spacing and offset?
  - A. Back spacing is the distance from the wheel's mounting surface to the back edge, while offset is the distance from the wheel's centerline to the mounting surface
  - B. Back spacing is the distance from the wheel's centerline to the mounting surface, while offset is the distance from the wheel's mounting surface to the back edge
  - C. Back spacing is the distance from the wheel's front edge to the mounting surface, while offset is the distance from the wheel's mounting surface to the centerline
  - D. Back spacing and offset are the same
  
6. What is "radial tire pull" often due to?
  - A. The angle of the body (carcass) plies
  - B. Tire conicity
  - C. Tread design
  - D. Bead design
  
7. What precautions should the driver of a vehicle equipped with run-flat tires adhere to?
  - A. Should not be inflated to more than 10 PSI
  - B. Should not be driven over 50 at 55 MPH with zero PSI of inflation pressure
  - C. Rapid cornering should be avoided if the tire has zero air pressure
  - D. Both B and C

8. What is the function of a Schrader valve in a tire?

- A. To balance the tire
- B. To hold air in the tire
- C. To measure tread depth
- D. To indicate tire rotation

9. In a wheel designation size labeled 14 × 7JJ, what do the letters JJ indicate?

- A. The offset of the rim
- B. The bolt circle code
- C. The back spacing of the rim
- D. The shape of the flange area

10. Which size lug nut would fit a metric wheel stud?

- A. 7/16-20 LH
- B. 1/2 × 20
- C. M12 × 1.5
- D. 7/16-20RH

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Chapter 108

Multiple Choice Quiz B

Answer Key

1. B

2. A

3. D

4. A

5. A

6. B

7. D

8. B

9. D

10. C