

Name: _____

Date: _____

1. What can damage bearings due to poor ground wires or improper welding?
 - A. Electrical arcing
 - B. Chemical corrosion
 - C. Physical abrasion
 - D. Thermal overheating

2. What is the name of the Swedish engineer who developed a process of testing for surface hardness?
 - A. Alfred Nobel
 - B. Gustaf Dalén
 - C. Johan August Brinell
 - D. Anders Celsius

3. How can you differentiate between bearing noise and tire noise?
 - A. By changing the tire pressure
 - B. By rotating the tires
 - C. By driving over different road surfaces
 - D. All of the above

4. What is the effect of overinflating the tires temporarily to diagnose noise?
 - A. It changes tire noise but not bearing noise
 - B. It changes bearing noise but not tire noise
 - C. It has no effect on either noise
 - D. It amplifies both noises

5. What is a symptom of a defective front wheel bearing?
 - A. A loud grinding noise
 - B. A high-pitched squeal
 - C. A whistling noise at high speeds
 - D. A clicking noise during braking

6. What is the purpose of a garter spring in a dynamic seal?
 - A. To provide structural support
 - B. To maintain the seal's shape
 - C. To hold the lip edge tight against the shaft
 - D. To prevent the seal from rotating

7. What is the result of a bent cage in a bearing?
 - A. It can be repaired and reused
 - B. It must be replaced
 - C. It increases the efficiency of the bearing
 - D. It has no significant effect on the bearing

8. What is a sign of metal fatigue in a bearing?

- A. Bright and shiny surface
- B. Presence of grease
- C. Cracks and eventual breakage
- D. Smooth and even surface

9. What should be done if the brake fluid moves while the front wheels are being turned?

- A. Tighten the wheel nuts
- B. Check the wheel bearings
- C. Replace the brake fluid
- D. Ignore, as it is normal

10. What is the recommended action when servicing a wheel bearing with a bent cage?

- A. Lubricate the bearing thoroughly
- B. Adjust the cage to its original shape
- C. Replace the bearing
- D. Clean the bearing with solvent

Automotive Technology 7th Edition

Chapter 97

Multiple Choice Quiz B

Answer Key

1. A

2. C

3. C

4. B

5. D

6. C

7. A

8. B

9. B

10. C