

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

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

1. What is the minimum void area that a tire must have to be designated as M & S?

- A. 15%
- B. 20%
- C. 25%
- D. 30%

2. What is a characteristic of the rubber compound used in all-season tires?

- A. High-bounce
- B. Low-hysteresis
- C. Hydrophobic
- D. Non-conductive

3. What is the primary purpose of tires?

- A. To provide friction between the vehicle and the road
- B. To provide shock absorber action
- C. To enhance the vehicle's aesthetics
- D. To improve fuel efficiency

4. What can excessive temperatures cause to a tire?

- A. Hardening of the rubber
- B. Increased traction
- C. The tire to come apart
- D. Decreased air pressure

5. What is the M&S rating on tires indicative of?

- A. Speed capability
- B. Mud and snow suitability
- C. Mileage warranty
- D. All-terrain performance

6. What is the effect of aggressive driving habits on tread wear life?

- A. No effect
- B. Increases tread life
- C. Decreases tread life
- D. Changes the tire color

7. What is the function of the major splice in a tire?

- A. To allow for expansion due to heat
- B. To join ends of the body ply material
- C. To indicate the tire's maximum speed
- D. To discharge static electricity

8. Why do newer tires with silica get charged with static electricity?

- A. Silica tires contain less carbon black
- B. Silica is a natural conductor of electricity
- C. Silica enhances the tire's grip on the road
- D. Silica tires are hydrophobic

9. What is the purpose of carbon sections in newer tire sidewall designs?

- A. To discharge static electricity to the ground
- B. To improve traction
- C. To increase the tire's lifespan
- D. To reduce the tire's weight

10. What is the significance of the DOT tire code on the sidewall?

- A. Indicates the tire's speed rating
- B. Shows the week and year of manufacture
- C. Specifies the type of tire valve needed
- D. Determines the tire's load index

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Chapter 108

Multiple Choice Quiz A

Answer Key

1. C

2. B

3. A

4. C

5. B

6. C

7. B

8. A

9. A

10. B