Automotive Technology 7th Edition
Chapter 109: Tire-Pressure Monitoring Systems
Short Answer Quiz

Name: _____ Date: _____

1. Describe the different methods used to activate TPMS sensors and explain the principle behind the delta pressure method.

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2. What are the key differences between OE-based sensors and aftermarket TPMS sensors, and what should be considered when choosing a replacement?

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4. Discuss the implications of the TREAD Act on vehicle safety and tire pressure monitoring systems.

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5. How does an indirect TPMS determine that a tire is underinflated, and what physical property of the tire does it use to make this determination?

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6. What are the consequences of low tire inflation pressure on vehicle performance and safety?

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7. Describe the steps a service technician must take to properly activate or learn a direct pressure sensor in a TPMS.

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8. What tools and supplies are essential for servicing a TPMS, and why is each necessary?

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9. How does the TPMS receiver use the signal from the tire pressure sensor to determine the location of the sensor on the vehicle?

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10. Explain the differences between indirect and direct tire-pressure monitoring systems and the evolution of their use in the automotive industry.

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