1. American physicist who won the Nobel Prize in Physics in 1944 for his discovery of nuclear magnetic resonance (1, 1, 4)
2. A standard unit of mass in astronomy, equal to approximately $1.99 \times 10^{30}$ kilograms (5, 4)
3. Pertaining to microbiology (15)
4. Hormone secreted by the islets of Langerhans in the pancreas (7)
6. A flow of electricity through a conductor (8, 7)
7. Small songbird with a reddish breast (5)
8. English astronomer who discovered infrared light (8)
9. The branch of physics that studies the physical properties of light (6)
16. A metric unit of length equal to one billionth of a meter (9)
17. In set theory, the unique set having no elements (5, 3)
19. A three-dimensional closed surface such that every point on the surface is equidistant from the centre (6)
20. A large order of insects having a single pair of wings and sucking or piercing mouths (7)
21. True lizards including chameleons and geckos (6)
23. Transient cessation of respiration (5)

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**Solution To February 2018**

**Across**
1. An inability to sleep (8)
2. An open recess in a wall at the base of a chimney where a fire can be built (5)
3. An antiquity that has survived from the distant past (5)
4. The month following August and preceding October (9)
5. Swiss physicist who contributed to hydrodynamics and mathematical physics (9)
6. A medicine that strengthens and invigorates (5)
7. The unit of plane angle (6)
8. Study of the physical and natural world using theoretical models and data from experiments or observation (7)
9. Animal tissues consisting predominantly of contractile cells (7)
10. Cause a liquid to flow out from a container (6)
11. A sharp vibrating sound as of a plucked string (5)
12. Increased blood in the vessels of an organ or tissue in the body (9)
13. The curve of $y = a \sin x$ (4, 5)
14. Formed by reaction between an acid and an alcohol with elimination of water (5)
15. Conical fishnets dragged through the water at great depths (6)
16. Single-celled or non-cellular spherical or spiral or rod-shaped organisms lacking chlorophyll that reproduces by fission (8)
20. A large order of insects having a single pair of wings and sucking or piercing mouths (7)
21. True lizards including chameleons and geckos (6)
23. Transient cessation of respiration (5)

**Down**
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