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| **3.**Which of the following would be a good candidate for magnetic storage?A) a soft magnetic materialB) copperC) aluminumD) electrically conductive plastic**4.**Radio waves travel through empty spaceA) Faster than visible lightB) Slower than visible lightC) At the speed of visible lightD) With only electric fields and not magnetic fields**5.**A tank circuitA) switches energy stored between electric in the capacitor and magnetic in the resistorB) switches energy stored between electric in the inductor and magnetic in the capacitorC) switches energy stored between electric in the capacitor and magnetic in the inductorD) switches energy stored between electric in the capacitor and magnetic in the inductor**6.**The speed of light is roughly 300,000,000 m/s. A radio station has frequency 100 megahertz. What is the station’s wavelength?A) 30,000,000,000 metersB) 3,000,000 metersC) 3.0 metersD) 0.33 meters**7.**If an electric field wave oscillates north and south, and the wave is traveling straight up, then what direction does the magnetic field wave oscillate?A) East and westB) North and southC) Up and downD) It does not oscillate: this situation is impossible**10.**One way radio waves do not differ from visible light is thatA) There will never be a movie named “Visible Light”.B) Radio waves have less energy and travel slower than visible lightC) Radio waves have less energy and travel faster than visible lightD) Radio waves travel at the same speed as visible light**11.** Electric fields come fromA) electric charge onlyB) electric charge or changing magnetic fieldsC) changing magnetic fields onlyD) electric charge or any magnetic field |