The Annual Quiz

This short quiz features some of the interesting items that I have gathered from various print and online sources but have not yet used in my “Turnstile” columns in IEEE Antennas and Propagation Magazine. So it is time to pick up a pen, and have a crack at the quiz. No Googling allowed! The answers can be found on page 127 in this issue of the magazine.

1) Rather than relying on radio waves for broadcasting our presence to any putative extraterrestrials (so far without results), scientists at Nanjing University of Aeronautics and Astronautics propose using... a) laser beams b) X-rays c) extremely low frequencies d) none of the above.

2) Researchers del Hougne and Lerosey have proposed using Wi-Fi waves reverberating in a room for... a) monitoring the room temperature and humidity b) detecting intruders c) performing analog computations d) none of the above.

3) According to a paper presented at a recent Internet/TV conference, ___ can “interrupt a good many line-of-sight apertures between a base station and client and present performance challenges.” a) power lines b) stone walls c) trees and other foliage d) none of the above.

4) On 10 April 2019, radio astronomers revealed the first-ever image of... a) a new planet in our solar system b) a black hole c) the other side of the moon d) none of the above.

5) ____ claimed to have released the world’s first 5G network in April 2019. a) The United States b) China c) South Korea d) none of the above.

6) “Generation Zapped” is... a) a documentary about the alleged hazards of microwave radiation b) a nickname for the generation of children born during 2000–2020 c) a global initiative to eradicate malaria by zapping mosquitoes electronically d) none of the above.

7) Sir Robert Watson-Watt helped Britain prevail during the Battle of Britain in 1940 by developing the world’s first practical ___. a) antiaircraft gun b) radar system c) air-to-air missile d) none of the above.

8) According to Harvard scientists Shmuel Bialy and Avi Loeb, the mysterious 230-m-long interstellar object Oumuamua could be... a) a comet b) space debris c) a “light-sail” created by an alien civilization d) none of the above.

9) According to scientists from the U.K.’s National Physical Laboratory, earthquakes could be detected using... a) offshore windmills b) whale migration patterns c) undersea telecommunication cables d) none of the above.

10) PowerShake is... a) a new beverage designed for the International Space Station b) a condition affecting the power grid after an electromagnetic pulse attack c) a system for trading power between mobile devices d) none of the above.

Digital Object Identifier 10.1109/MAP.2019.2920126
Date of publication: 6 August 2019

(continued on page 127)
ANSWERS TO THE ANNUAL QUIZ

1) b) X-rays. (They are better at penetrating interstellar dust, and there is less X-ray background noise.)

2) c) Performing analog computations.

3) c) Trees and other foliage.

4) b) A black hole. (The image was captured by the Event Horizon Telescope Array, a worldwide system of eight linked radio telescopes.)

5) c) South Korea. (U.S. carrier Verizon launched its own 5G services a few hours later.)

6) a) A documentary about the alleged hazards of microwave radiation.

7) b) Radar system.

8) c) A “light-sail” (propelled by radiation pressure) created by an alien civilization.

9) c) Undersea telecommunication cables.

10) c) A system for trading power between mobile devices.

We want to hear from you!

Do you like what you’re reading? Your feedback is important. Let us know—send the editor-in-chief an e-mail!