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Continuing Education Course #097  
Cell Phone and RF Exposure Awareness

1. General population/uncontrolled exposure applies when persons are not made fully aware of the exposure.  
 a. True.  
 b. False.
2. Occupational/controlled exposure applies when persons have been made fully aware of the exposure.  
 a. True.  
 b. False.
3. The frequency range of interest for FCC exposure regulations is:  
 a. 9 kHz to 275 GHz.  
 b. 300 kHz to 100 GHz.  
 c. ionizing radiation bands.  
 d. only cellular frequency bands.
4. Specific absorption rate (SAR) measures:  
 a. Field strength at the body.  
 b. Rate of energy absorbed by biological tissue.  
 c. Effects of ionization effects.
5. Specific absorption rate (SAR) has the units:  
 a.  $V^2/m$ .  
 b.  $kg/m^3$ .  
 c. W/kg.
6. An adult human body emits RF radiation at a power level of about:  
 a. 24 THz.  
 b. 25 W.  
 c. 1,300 W.  
 d. 120 W.
7. Photons can exist only at visible light frequencies:  
 a. True.  
 b. False.
8. Ionizing radiation is radiation at a high enough frequency that photons are:  
 a. not present.  
 b. are energetic enough energy to remove bound electrons from an atom.  
 c. visible.
9. On what are the regulations for human exposure to RF fields based?

- a. SAR thresholds where adverse biological effects may occur.
- b. Electrical conductivity of the human body.
- c. Electric oven heating effects.

10. The SAR limit has a large margin of safety.

- a. False.
- b. True.

11. What is the FCC limit for public exposure from cell phones?

- a. 5 W/kg.
- b. 1.6 W/kg.
- c. Cell phones are exempt from regulations.

12. Whom has the U.S. Congress directed to define compliance requirements for RF exposure?

- a. The FDA.
- b. The NTIA.
- c. The FCC.
- d. The IEEE.

13. What are we attempting to control per the relevant exposure standards?

- a. SAR
- b. skin depth.
- c. body size dependencies.

14. The FCC MPE Table differentiate between:

- a. Occupational/Controlled and General Population/Uncontrolled environments.
- b. visible and invisible radiation
- c. FCC Table make no differentiations.

15. The electric and magnetic field quantities in the compliance Tables are:

- a. Only measured values.
- b. Total magnitude values.
- c. Instantaneous peak values.

16. Detailed information on evaluation compliance with FCC limits can be found in:

- a. IEEE 802.11 Standard.
- b. OST/OET Bulletin Number 65.
- c. CENELEC Report 1.

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