

Topic: Atomic Physics

1. What is the term used to describe an electron that is elevated to a higher energy orbital shell within the same atom?

- A. Ionization
- B. Excitation
- C. Elevation
- D. Promotion

Answer:

B. When an orbital electron absorbs energy and jumps to a higher orbital shell, this is called excitation

Topic: Electromagnetic Radiation

2. Which energy of the electromagnetic range has the shortest wavelength?

- A. 18 X photons
- B. 6 X photons
- C. 22MeV electrons
- D. 12 MeV electrons

Answer:

A. Photons have greater penetrating ability than electrons in the body. The highest energy photon energy has the smallest wavelength.

Topic: Radiation Detection & Measures

3. Radioactivity is measured in SI (International System) terms of: ?

- A. Curie
- B. Gray
- C. Roentgen
- D. Becquerel

Answer:

D. The Becquerel is the SI unit given for radioactivity. One Becquerel is a single disintegration of activity per second.

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