Nanotechnology Essentials

Nanotechnology · Answer Key · 8 Questions

1. In what year did Richard Feynman deliver his famous lecture 'There's Plenty of Room at the Bottom', which is often cited as the inspiration for nanotechnology?

A) 1959
B) 1965
C) 1972
D) 1981

2. One nanometer is equal to how many meters?

A) 10^-3 meters
B) 10^-6 meters
C) 10^-9 meters
D) 10^-12 meters

3. Who is credited with coining the term 'nanotechnology' in 1974 to describe precision engineering of materials at the nanometer scale?

A) Eric Drexler
B) Norio Taniguchi
C) Richard Feynman
D) Sumio Iijima

4. What is the approximate size range of a nanoparticle?

A) 1 to 100 nanometers
B) 500 to 1000 nanometers
C) 1 to 5 micrometers
D) 10 to 50 micrometers

5. Sumio Iijima is widely recognized for discovering which carbon-based nanostructure in 1991?

A) Fullerenes
B) Graphene
C) Carbon nanotubes
D) Quantum dots

6. The 1981 invention of which instrument allowed scientists to image and manipulate individual atoms for the first time?

A) Electron microscope
B) Scanning tunneling microscope
C) Atomic force microscope
D) Optical microscope

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7. How many carbon atoms make up a standard Buckminsterfullerene (C60) molecule?

A) 20
B) 40
C) 60
D) 80

8. Which US president signed the 21st Century Nanotechnology Research and Development Act into law in 2003?

A) Bill Clinton
B) George W. Bush
C) Barack Obama
D) Ronald Reagan