

PPSC Chemistry Part VII NanoChemistry Online Test

Sr	Questions	Answers Choice
1	The prefix 'nano' comes from a	A. French word meaning billion B. Greek word meaning dwarf C. Latin word meaning invisible D. Spanish word meaning particle
2	When fullerenes were discovered they were thought to be	A. First example of spherical aromatic molecule B. First example of spherical non aromatic molecule C. First example of diamond like molecule D. None of the above
3	The width of a typical DNA molecule is _____ nm	A. 1 B. 2 C. 5 D. 10
4	The size of nanoparticles is between _____ nm	A. 100 to 1000 B. 1 to 100 C. 0.1 to 10 D. 0.01 to 1
5	Length of semiconductor nanorods are in the range of.	A. 1.50 nm B. 1-50 micro meter C. 100-500 nm D. 50-100 nm
6	Which of the following does not apply to nanotechnology.	A. It is a general purpose technology B. It can be called Green technology C. Newtonian mechanics can describe it. D. It involves rearrangement of atoms
7	1 nanometre = _____ cm	A. 10^{-9} B. 10^{-8} C. 10^{-7} D. 10^{-6}
8	What exactly is quantum dot	A. A semiconductor nanostructure that confines the motion of conduction band electrons, valence band holes or excitation in all three spatial directions B. The sharpest possible tip of an atomic force microscope C. A fictional term used in science fiction for the endpoints of wormholes D. Unexplained spots that appear in electron microscopy images of nanostructures smaller than 1 nanometer
9	The smallest cluster of carbon atoms in Bucky balls known till today consists of _____ carbon atoms.	A. 75 B. 20 C. 60 D. 15
10	The physical methods of nano roads syntheses involves.	A. Top down approach B. Bottom up approach C. Left right approach D. Right left approach
11	When a large block of silicon wafer is reduced to smaller component and hence non material is formed this approach is called.	A. Bottom up B. Top down C. Left to right D. Right to left
12	Who was the first scientist to describe that substance having Nano dimensions possess altogether different and unique properties.	A. Richard Feynman B. Erick Drexler C. Archimedes D. Michael Faraday
13	In compressive strength of a nanotube _____ its tensile strength.	A. Is less than B. Is greater than C. Is equal to D. None of the above

		C. Is equal to D. Less than or equal to.
14	Fullerene or bucky ball is made up of _____ carbon atoms.	A. 100 B. 20 C. 75 D. 60
15	The orientation of a crystalline surface is confidently defined in terms of.	A. Lijima Indices B. Miller indices C. Clausen indices D. None
16	The thermal conductivity of an SWNT along length is _____ watt/(m.k)	A. 35 B. 330 C. 386 D. 3500
17	Who prepared and explained nano tubes for the first time.	A. Sumio Tijima B. Richard Smaley C. Erick Drexler D. Richard Feynamann
18	_____ are the extensions of bucky balls.	A. Goodesic domes B. Hexagons C. Carbon nanotubes D. AFM and STM
19	A considerable number of atoms pertaining to the surface _____ with the decreasing the particle size.	A. Increase B. Decrease C. No effect D. Both a and b
20	Opticla tweezers	A. Are used to remove facial hair with miniaturized laser beams B. use light to manipulate particles as small as single atom C. Are a nanotechnology bases tool for stamp collectors D. Don't exist