

PPSC Chemistry Part VII NanoChemistry Online Test

Sr	Questions	Answers Choice
1	"There is a plenty of room at the bottom" This was stated by	A. Issac Newton B. Albert Einstein C. Richard Feynman D. Eric Drexler
2	The diameter of a bucky ball is about _____	A. >1 A B. 1 nm C. >100 A D. 10 nm
3	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
4	The diameter of hydrogen atom is. _____ nm	A. 10 B. 1 C. 0.1 D. 0.01
5	In radial direction the thermal conductivity of a nano tube is _____ watt/(m.k)	A. 3500 B. 385 C. 0 D. 350
6	Nanoscience can be studied with the help of	A. Quantum mechanics B. Newtonian mechanics C. Macro dynamics D. Grophysics
7	What is a buckyball	A. A carbon molecule B. Nickname for Mercedes -Benz's futuristic concept car (CIII) C. Plastic explosives nanoparticle (C4) D. Concrete nanoparticle with a compressive strength of 20 nanonewtons(C20)
8	Which of the microscope techniques is similar to the Atomic Force Microscopy (AFM)	A. Scanning Electron Microscopy B. Scanning Tunneling Microscopy C. Transmission Electron Microscopy D. None of the above
9	The width of a carbon nano tube is. _____ nm	A. 1 B. 1.3 C. 2.5 D. 10
10	The width of a typical DNA molecule is _____ nm	A. 1 B. 2 C. 5 D. 10
11	The ration of thermal conductivity of silver to that of a carbon nanotube is.	A. 100 : 1 B. 1 :100 C. 10:1 D. 1:10
12	1 meter = _____ nm	A. 10^9 B. 10^{-9} C. 10^{10} D. 10^{-10}
13	The size of quantum dot is _____ m	A. 5 B. 5×10^{-9} C. 5×10^{-10} D. 5×10^{-11}
14	20 micron = _____ nm	A. 20×10^{-9} B. 20000 C. 200 D. 20×10^9

15	Which of the following is class of nanorods	A. metals B. alloys C. Metal oxide and Metal sulphite D. All of the above
16	1 nanometre = _____ cm	A. 10^{-9} B. 10^{-8} C. 10^{-7} D. 10^{-6}
17	The full form of STM is	A. Scanning Tunneling Microscope B. Scientific Technical Microscope C. Systematic Technical Microscope D. SuperTensile Microscope
18	In confining and growing nano roade CNTs will act as.	A. Template B. Support C. Source of oxidant D. Sieve
19	In a bucky ball each carbon atom in bound in _____ adjacent carbon atoms.	A. 1 B. 2 C. 3 D. 4
20	The capacity of normal human eye to see the smallest object is _____ micro meter	A. 10000 B. 1000 C. 100 D. 10