

PPSC Chemistry Part VII NanoChemistry Online Test

Sr	Questions	Answers Choice
1	Greeks and Romans had used nanoparticles in the manufacture of.	A. Cosmetics for eyes B. Medicines C. Metals D. Hair -dye
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 diameter of fly ash particles is. _____ micro meter	A. 5-10 B. 10-20 C. 20-30 D. 100
4	Nano particles may interact with the support to be.	A. Partially oxidized B. Partially reduced C. Both a and b D. None
5	The width of a carbon nano tube is. _____ nm	A. 1 B. 1.3 C. 2.5 D. 10
6	Nano technology in other words is.	A. Carbon engineering B. Atomic engineering C. Small technology D. Microphysics
7	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
8	The tensile strength of a carbon nanotube is _____ times that of steel.	A. 10 B. 25 C. 100 D. 1000
9	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
10	The electrical conductivity of a nano tube is _____ times that of copper.	A. 10 B. 100 C. 1000 D. 1/100
11	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
12	The particles of about 1 nm need _____ activation energy to enter either aggregation processes or reactions to give to new chemicals.	A. Higher B. Lesser C. No D. All above
13	The thermal conductivity of an SWNT along length is _____ watt/(m.k)	A. 35 B. 330 C. 386 D. 3500
14	The size of E coli bacteria is. _____ nm	A. 75000 B. 2000 C. 200 D. 5

15	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
16	What is abuckyball	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)
17	Which of these historical works of art contain nanotechnology.	A. Lycurgus cup B. Medieval stained glass windows in churches C. Damascus steel swords D. All of the above
18	What does 'F' stand for in AFM.	A. Fine B. Front C. Force D. Flux
19	Which of the following is class of nanorods	A. metals B. alloys C. Metal oxide and Metal sulphite D. All of the above
20	The most important problem regarding nano chemistry	A. Elucidation of relationship between also and chemical reactivity of particle B. Determination of size of particle C. Determination of reactivity of particle D. Determination of physical properties of nano particles.