

PPSC Chemistry Full Book Test

Sr	Questions	Answers Choice
1	The orientation of a crystalline surface is confidently defined in terms of.	A. Lijima Indices B. Miller indices C. Clausen indices D. None
2	Which of the following techniques is bulk technique.	A. Powder XRD B. Single Crystal XRD C. SEM D. TEM
3	The suffix '-ene' in the name of fullerene shows the presence of ____ in the molecule.	A. One triple bond B. One double bond C. Two single bonds D. Two triple bonds
4	Who prepared and explained nano tubes for the first time.	A. Sumio Tjijima B. Richard Smaley C. Erick Drexler D. Richard Feynamann
5	The width of a carbon nano tube is. _____ nm	A. 1 B. 1.3 C. 2.5 D. 10
6	The capacity of normal human eye to see the smallest object is _____ micro meter	A. 10000 B. 1000 C. 100 D. 10
7	The thermal conductivity of an SWNT along length is _____ watt/(m.k)	A. 35 B. 330 C. 386 D. 3500
8	In radial direction the thermal conductivity of a nano tube is _____ watt/(m.k)	A. 3500 B. 385 C. 0 D. 350
9	The electrical conductivity of a nano tube is _____ times that of copper.	A. 10 B. 100 C. 1000 D. 1/100
10	In compressive strength of a nanotube _____ its tensile strength.	A. Is less than B. Is greater than C. Is equal to D. Less than or equal to.
11	The smallest cluster of carbon atoms in Bucky balls known till today consists of _____ carbon atoms.	A. 75 B. 20 C. 60 D. 15
12	Which ratio decides the efficiency nano substance.	A. Weight /volume B. Surface area/volume C. Volume/weight D. Pressure/volume
13	What does 'F' stand for in AFM.	A. Fine B. Front C. Force D. Flux
14	The full form of STM is	A. Scanning Tunneling Microscope B. Scientific Technical Microscope C. Systematic Technical Microscope D. SuperTensile Microscope
15	The width of a typical DNA molecule is _____ nm	A. 1 B. 2 C. 5 D. 10

16	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
17	Who was the first scientist to describe that substance having Nano dimensions possess altogether different and unique properties.	A. Richard Feynmann B. Erick Drexler C. Archimedes D. Michael Faraday
18	Egyptians were using _____ to prepare make up for eyes.	A. Nanoaluminium B. Nanocopper C. Nanosteel D. Nanolead
19	Greeks and Romans had used nanoparticles in the manufacture of.	A. Cosmetics for eyes B. Medicines C. Metals D. Hair -dye
20	Nanoscience can be studied with the help of	A. Quantum mechanics B. Newtonian mechanics C. Macro dynamics D. Grophysics
21	Who coined the word nanotechnology.	A. Eric Drexler B. Richard Feynmann C. Sumio tijma D. Richard smalley
22	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
23	Fullerene or bucky ball is made up of _____ carbon atoms.	A. 100 B. 20 C. 75 D. 60
24	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
25	In a bucky ball each carbon atom is bound in _____ adjacent carbon atoms.	A. 1 B. 2 C. 3 D. 4
26	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
27	The tensile strength of a carbon nanotube is _____ times that of steel.	A. 10 B. 25 C. 100 D. 1000
28	The diameter of fly ash particles is. _____ micro meter	A. 5-10 B. 10-20 C. 20-30 D. 100
29	Nano technology in other words is.	A. Carbon engineering B. Atomic engineering C. Small technology D. Microphysics
30	_____ are the extensions of bucky balls.	A. Goodesic domes B. Hexagons C. Carbon nanotubes D. AFM and STM