

Physics ICS Part 2 Chapter 21 Online MCQ's Test

Sr	Questions	Answers Choice
1	The half life of radioactive elements depends upon	A. Temperature B. Nature of element C. Amount of the radioactive substance D. Pressure
2	The mass of protons is:	A. 1.675×10^{-27} kg B. 1.693×10^{-27} kg C. 1.673×10^{-31} kg D. 1.673×10^{-27} kg
3	Binding energy per nucleus for uranium is above:	A. 6.7 Mev B. 7.7 Mev C. 6.9 MeV D. 7.9 MeV
4	Which of the following is typical source of alpha particle.	A. Strontium -94 B. Radon -222 C. Cobalt -60 D. Zinc sulphate
5	Controlling rods inserted into the reactor are of metal:	A. Aluminium B. Cadmium C. Magnesium D. Copper
6	The energy of photon for photoelectric effect is less than	A. 1 MeV B. 2 MeV C. 5 MeV D. 8 MeV
7	The activity of radioactive sample	A. Is constant B. Increases with time C. Decreases linearly with time D. Decreases exponentially with time
8	Charge on an electron was determined by	A. Ampere B. Millikan C. Maxwell D. Bohr
9	GM counter uses	A. Alcohol only B. Bromine C. argon D. Neon and bromine
10	Rutherford performed on experiment on a nuclear reaction in:	A. 1921 B. 1981 C. 1927 D. 1932
11	The building blocks of protons and neutrons are called.	A. Ions B. Electrons C. Positrons D. quarks
12	Both Xenon and cesium have	A. 33 isotopes B. 34 Isotopes C. 36 Isotopes D. 35 Isotopes
13	The dead time of G.M tube is.	A. 10^{-1} sec B. 10^{-6} sec C. 10^{-4} sec D. 10^{-8} sec
14	Cobalt -60 is the source for	A. Alpha rays B. Gamma rays C. Beta rays D. Neutron
15	Which of the following basic force is able to provide an attraction between two neutrons:	A. Electrostatic and nuclear b B. Electrostatic and gravitational C. Gravitational and strong nuclear

16 A radio active substance has a half life of four months. 3 -fourth of the substance will decay in:
A. 6 months
B. 8 months
C. 12 months
D. 16 months

17 The binding energy per nucleon is maximum for
A. Helium
B. Iron
C. Potassium
D. Radium

18 Which pair belongs to hadrons.
A. Protons and Neutrons
B. Neutrons and electrons
C. Photons and electrons
D. positrons and electrons

19 The potential difference between the top and bottom of a cloud chamber is of the order of
A. 290 v
B. 400 v
C. 1 kv
D. None of above

20 If the following particle have the same energy, which particle has the shortest wave length.
A. alpha particle
B. Neutron
C. Beta particle
D. Proton
