

## Physics ICS Part 2 Chapter 21 Online MCQ's Test

Sr	Questions	Answers Choice
1	The dead time of G.M tube is.	A. $10^{-1}$ sec B. $10^{-6}$ sec C. $10^{-4}$ sec D. $10^{-8}$ sec
2	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 D. Only nuclear force
3	Cobalt -60 is the source for	A. Alpha rays B. Gama rays C. Beta rays D. Neutron
4	Half life of Uranium -239 is	A. 26.5 minutes B. 24.5 minutes C. 25.5 minutes D. 23.5 minutes
5	The SI unit of decay constant is	A. m B. $m^{-1}$ C. $S^{-1}$ D. $Nm^{-1}$
6	The force which is responsible for the breaking up of the radioactive element is.	A. Weak nuclear force B. Strong nuclear force C. Electromagnetic force D. Gravitational force
7	Binding energy per nucleon is maximum for	A. Platinum B. Iron C. Uranium D. Lead
8	The radio active nuclide ${}_{86}\text{Ra}^{228}$ decays by a series of emissions of three alpha particles and one beta particle. The nuclide X finally formed is:	A. ${}_{64}\text{X}^{220}$ B. ${}_{86}\text{X}^{222}$ C. ${}_{84}\text{X}^{216}$ D. ${}_{88}\text{X}^{215}$
9	When a nucleus emits an alpha particle, its atomic mass decreases by	A. 1 B. 2 C. 3 D. 4
10	Half life of radon gas is	A. 3.8 minutes B. 3.8 days C. 3.8 months D. 3.8 years
11	The background radiation to which we are exposed, on the average is.	A. 1 mSv per year B. 2 mSv per year C. 3 mSv per year D. 4 mSv per year
12	Nuclear fission chain reaction is controlled by using.	A. Cadmium rods B. Iron rods C. Platinum rods D. Steel rods
13	The mass of beta particle is equal to mass of.	A. Protons B. Electrons C. Neutrons D. Boron
14	In Wilson cloud chamber, $\beta$ -particles leave	A. Thin and continuous tracks B. Thick and continuous tracks C. No tracks D. Thin and discontinuous tracks
15	Both Xenon and cesium have	A. 33 isotopes B. 34 isotopes C. 36 isotopes D. 35 isotopes

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16	Binding energy for deuteron nucleus is given by	A. 2.8 MeV B. 2.23 MeV C. 2.28 MeV D. 2.25 MeV
17	The number of neutrons in Li are	A. 2 B. 3 C. 4 D. 7
18	Both xenon and caesium each have:	A. 41 isotopes B. 36 isotopes C. 43 isotopes D. 33 isotopes
19	James chadwick discovered:	A. Proton B. Positron C. Neutron D. Electron
20	A proton consists of quarks which are.	A. Two up, one down B. One up, two down C. All up D. All down

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