

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

Sr	Questions	Answers Choice
1	For workers in nuclear facilities is, a weekly does of is normally considered safe	A. 1.0 msv B. 5.0 msv C. 2.0 msv D. 3.0 msv
2	How many neutrons are there in the nuclide $\text{Zn}^{66}$ ?	A. 22 B. 30 C. 36 D. 66
3	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
4	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
5	The radioactive decay obeys the law	
6	When nitrogen is bombarded by alpha particles nitrogen nucleus changes into	A. Oxygen B. Carbon C. Barium D. Helium
7	The amount of energy equivalent to 1 a.m.u is	A. 931.5 MeV B. 93.15 MeV C. 9.315 MeV D. 2.224 MeV
8	Nuclear fission chain reaction is controlled by using.	A. Cadmium rods B. Iron rods C. Platinum rods D. Steel rods
9	X-rays are similar in nature to.	A. Gama rays B. Beta rays C. Alpha rays D. Cathode rays
10	The radio active nuclide ${}^{228}_{86}\text{Ra}$ decays by a series of emissions of three alpha particles and one beta particle. The nuclide X finally formed is:	A. ${}^{64}_{\text{X}}{}^{220}_{\text{X}}$ B. ${}^{86}_{\text{X}}{}^{222}_{\text{X}}$ C. ${}^{84}_{\text{X}}{}^{216}_{\text{X}}$ D. ${}^{88}_{\text{X}}{}^{215}_{\text{X}}$
11	When a nucleus emits an alpha particle, its atomic mass decreases by	A. 1 B. 2 C. 3 D. 4
12	Before and after nuclear reaction the number of protons and neutrons:	A. Must be different B. Must be decreased C. Must be increased D. Remains same
13	The binding energy for _____ is maximum.	A. Copper B. Glass C. Iron D. Aluminum
14	The binding energy per nucleon is maximum for	A. Helium B. Iron C. Potassium D. Radium
15	The Unit of decay constant.	A. Second B. (second) <sup>-1</sup> C. m <sup>-1</sup> D. mk
16	Energy released by conversion of 1 amu is	A. 200 MeV B. 931 MeV C. 233 MeV

		D. 243 MeV
17	Low level radiations effects	A. Less of hair B. Ulceration C. Drop of white blood cells D. All
18	1 amu is equal to	A. $1.0606 \times 10^{-27}$ kg B. $1.66 \times 10^{-31}$ kg C. $1.66 \times 10^{-34}$ kg D. $1.66 \times 10^{-19}$ kg
19	When a nucleus emits alpha particle its atomic mass decreases by	A. 1 B. 2 C. 3 D. 4
20	James chadwick discovered:	A. Proton B. Positron C. Neutron D. Electron