

Physics ICS Part 2 Chapter 21 Online MCQ's Test

Sr	Questions	Answers Choice
1	amu =	A. 1.06×10^{-27} kg B. 1.6606×10^{-27} kg C. 1.520×10^{-21} kg D. 1.6606×10^{-31} kg
2	Unit of decay constant λ is:	A. ms B. m^{-1} C. m D. S^{-1}
3	Marie Curie and Pierre Curie discovered.	A. Uranium B. Uranium and Radium C. Polonium and radium D. Radium
4	GM counter uses	A. Alcohol only B. Bromine C. argon D. Neon and bromine
5	The binding energy for _____ is maximum.	A. Copper B. Glass C. Iron D. Aluminium
6	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
7	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
8	The mass of proton in amu is:	A. 1.07276 B. 1.7276 C. 1.007276 D. 1.0007276
9	Absorbed Dose 'D' is defined as	A. m/E B. E/C C. C/m D. E/m
10	Controlling rods inserted into the reactor are of metal:	A. Aluminium B. Cadmium C. Magnesium D. Copper
11	Both xenon and caesium each have:	A. 41 isotopes B. 36 isotopes C. 43 isotopes D. 33 isotopes
12	The mass spectrum of naturally occurring neon shows the most abundant isotope has atomic mass.	A. 19 B. 20 C. 21 D. 22
13	What is difference is isotopes	A. Number of protons B. Number of neutrons C. Number of electrons D. Charge number
14	The binding energy per nucleon is maximum for	A. Helium B. Iron C. Potassium D. Radium
15	The energy equivalent of 1 kg of matter is about:	A. 10^{-15} J B. 1 J C. 10^{-12} J D. 10^{-17} J

- 16 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. ${}_{88}\text{X}^{215}$
- 17 Mass equivalent of 931 MeV energy is:
- A. 6.02×10^{-23} kg
B. 1.766×10^{-27} kg
C. 2.67×10^{-29} kg
D. 6.02×10^{-87} kg
- 18 Binding energy for deuteron nucleus is given by
- A. 2.8 MeV
B. 2.23 MeV
C. 2.28 MeV
D. 2.25 MeV
- 19 Alpha particle carries a charge.
- A. $-e$
B. $+2e$
C. $-2e$
D. No charge
- 20 Circulation of blood is studied by radio isotope.
- A. Cobalt -60
B. Phosphorus -32
C. Sodium -24
D. Iodine -131