

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

Sr	Questions	Answers Choice
1	The moderator used in a nuclear reactor	A. Sodium B. Uranium C. Graphite D. Cadmium
2	Nuclear fission was discovered by:	A. Otto Hahn B. Friz strassmann C. Both a and b D. Michaelson
3	Half life of Uranium -239 is	A. 26.5 minutes B. 24.5 minutes C. 25.5 minutes D. 23.5 minutes
4	The energy of photon for photoelectric effect is less than	A. 1 MeV B. 2 MeV C. 5 MeV D. 8 MeV
5	Half life of radon gas is	A. 3.8 minutes B. 3.8 days C. 3.8 months D. 3.8 years
6	A particles equal or greater in mass than of protons are called.	A. Baryons B. Leptons C. Mesons D. Quarks
7	Two up quarks and one down quarks makes a	A. Proton B. Newton C. Photon D. Meson
8	The total charge of any nucleus is:	A. Ze B. Z C. Both a and b D. None of above
9	The scientist who suggested the presence of neutron was:	A. Bohr B. Rutherford C. Chadwick D. J.J Thomson
10	The most useful tracer is.	A. Strontium -90 B. Iodine -31 C. Cobalt -60 D. Carbon -14
11	Energy needed to produce an electron hole in solid state detector is.	A. 1 to 2 eV B. 3 to 4 eV C. 6 to 7 eV D. 8 to 9 eV
12	There is no change in A and Z of any radioactive element by the emission of.	A. Alpha particle B. Beta particle C. Gama particle D. X- rays
13	James chadwick discovered:	A. Proton B. Positron C. Neutron D. Electron
14	The binding energy per nucleon is maximum for	A. Helium B. Iron C. Potassium D. Radium
15	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. ${}_{88}\text{X}^{215}$

16	Energy released by conversion of 1 amu is	A. 200 MeV B. 931 MeV C. 233 MeV D. 243 MeV
17	The mass of protons is:	A. $1.675 \times 10^{-27}$ kg B. $1.693 \times 10^{-27}$ kg C. $1.673 \times 10^{-31}$ kg D. $1.673 \times 10^{-27}$ kg
18	Cosmic rays consist of	A. Protons B. High energy photons C. Positron D. All of above
19	Unit of decay constant $\lambda$ is:	A. ms B. $m^{-1}$ C. m D. $S^{-1}$
20	The binding energy for nucleus A is 7.7 MeV and that for nucleus B is 7.8 MeV. Which nucleus has the larger mass?	A. Nucleus A B. Nucleus B C. Less than nucleus D. None of these