

Nuclear and Particle Physics

Sr	Questions	Answers Choice
1	Disintegration of nucleus obeys the law of conservation of.	A. Charge only B. Mass only C. Both mass and charge D. None of these
2	The asymmetry of matter and antimatter is due to imbalance numebr of.	A. Baryon B. Hadron C. Lepton D. Photons
3	Which one of the following forces has negligible effect between eh elementary particles.	A. Strong nuclear force B. Graitational force C. Weak force D. Electromagnetic force
4	Which of the following conservation law hold in nuclear transmutation.	A. Energy B. Mass C. Momentum D. All these laws
5	The first discovered anti particles is	A. Anti portion B. Anti electron C. Anti neutriono D. Anti photon
6	The electroweak theory was introduced by	A. Abdul Salam B. Dirac C. Einstein D. Anderson
7	Baryon is formed by combination of	A. 2 quarks B. 3 quarks C. 4 quarks D. A quark and an anti quark
8	The lightest particle of matter which can physically exists is called.	A. Electron B. Neutron C. Proton D. Photon
9	Chemical properties of an atom are determined by its	A. Mass number B. Atomic number C. Biding energy D. None of these
10	Which of the following is a better shield angainst gama rays.	A. Heavy water B. Ordinary water C. Lead D. Aluminum
11	The building blocks of protons and neutrons are called.	A. Quarks B. Neutrino C. lons D. Electron
12	Which particles are produced by stormg interaction	A. Hadrons B. Graviton C. Leptons D. Mesons
13	The strong nuclear force between the two particles is medicated.	A. Gluons B. Photon C. Mesons D. Gravitons
14	An alpha particle is the nucleus.	A. Helium B. Protium C. Tritium D. Deuterium
15	Number of neutrons in. 235 U 92	A. 143 B. 92 C. 235 D. 327

16	Gama rays can be used to detect	A. Deep cancerous tumors B. Cracks or faults in engine and other machinery C. Cavities in metal plates D. All of the above
17	The chemical behavior of an element is determined by	A. Nucleus B. No of Isotopes C. Atomic Number D. Mass number
18	The gamma ray photon is stronger than	A. Ultra violet ray photon B. X-ray photon C. Micro wave photon D. All of the above
19	Dr Abdus Salam of Pakistan was one of the contributors to the unification of	A. Electromagnetic force and gravitational force B. Electromagnetic force and weak nuclear force C. Gravitational force and weak nuclear force D. Weak nuclear force and the strong nuclear force.
20	Beta Particle is regarded as fast moving	A. Proton B. Electron C. Neutron D. Boson