Nuclear and Particle Physics

Sr	Questions	Answers Choice
1	An alpha particle is the nucleus.	A. Helium B. Protium C. Tritium D. Deuterium
2	Which one of the following forces interacts between two particles through photons.	A. Strong nuclear force B. Weak force C. Electromagnetic force D. Gravitational force
3	The asymmetry of matter and antimatter is due to imbalance numebr of.	A. Baryon B. Hadron C. Lepton D. Photons
4	Which of the following is a better shield against gama rays.	A. Heavy water B. Ordinary water C. Lead D. Aluminum
5	The number of quarks that composed of a neutron sis.	A. 2 B. 3 C. 4 D. 5
6	Gama rays can be used to dected	A. Deep concerous tumors B. Cracks or faults in engine and other machinery C. Cavities in metal plates D. All of the above
7	The gama rays phton is stronger than	A. Ultra violete ray photon B. X -ray photon C. Micro wave photon D. All of the above
8	Which one of the following forces has negligible effect betweent eh elementary particles.	A. Strong nuclear force B. Graitational force C. Weak force D. Electromagnetic force
9	Dr abdus Salam of Pakistan was one of contributor to the unification of	A. Electromegnetic force and gravitational force B. Electrmegnetic force and weak nuclear force C. Gravitional force and weak nuclear force D. Weak nuclear force and the strong nuclear force.
10	X-rays differ from Gama -rays in respect of their	A. Origin B. Velocity C. Spin momentum D. Charge
11	The spontaneous emission of Alpha , Beta and gama ratiations from certin element is called.	A. Black body radiations B. Artificial radio activity C. Natural radio activity D. All of above
12	The number of fundamental forces present inn nature are.	A. 2 B. 4 C. 1 D. 3
13	Which one of thefollowing pari of particles creaes annihilation	A. Proton proton B. Proton neurton C. Electron position D. Neuttron - photon
14	Chemical properties of an atom are determined by its	A. Mass number B. Atomic number C. Biding energy

		D. None of these
15	Which one of the following is ghe fundamental praticle	A. Neutron B. Electron C. Proton D. Meson
16	Disintegration of nucleus obeys the law of conservation of.	A. Charge only B. Mass only C. Both mass and charge D. None of these
17	Baryon is formed by combination of	A. 2 quarks B. 3 quarks C. 4 quarks D. A quark and an anti quark
18	The weakest force fo all the forces.	A. Electro weak force B. Strong nuclear force C. Gravitational force D. None of these
19	Quarks are of	A. 6 types B. 2 types C. 4 types D. Infinite
20	Which particles are produced by storng interaction	A. Hadrons B. Graviton C. Leptons D. Mesons