

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

Sr	Questions	Answers Choice
1	Which one of the following is not affected by electric or magnetic field.	A. Beta rays B. Gama rays C. Alpha rays D. Electron
2	Circulation of blood is studied by radio isotope.	A. Cobalt -60 B. Phosphorus -32 C. Sodium -24 D. Iodine -131
3	Various types of cancer are treated by	A. Carbon -14 B. Nickel -63 C. Cobalt -60 D. Strontium -90
4	A radio active substance has a half life of four months. 3 -fourth of the substance will decay in:	A. 6 months B. 8 months C. 12 months D. 16 months
5	In Wilson cloud chamber, if tracks are thick, straight and continuous, then particle is	A. a-particles B. β-particles C. Y-rays D. All
6	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
7	The types of quarks are.	A. 2 B. 3 C. 4 D. 6
8	amu =	A. $1.06 \times 10^{-27}$ kg B. $1.6606 \times 10^{-27}$ kg C. $1.520 \times 10^{-21}$ kg D. $1.6606 \times 10^{-31}$ kg
9	Unit of decay constant λ is:	A. ms B. $m^{-1}$ C. m D. $S^{-1}$
10	1 amu =	A. 9.31 MeV B. 931 MeV C. 9.031 MeV D. None of above
11	Which particle has larger range in air.	A. Alpha rays B. Gama rays C. Beta rays D. Neutron
12	By emitting Beta particle and gama particle simultaneously the nucleolus changes in its charges by	A. N B. N/2 C. N/4 D. 3N/4
13	Nuclear fission was discovered by:	A. Otto Hahn B. Friz strassmann C. Both a and b D. Michaelson
14	Nuclear fission chain reaction is controlled by using.	A. Cadmium rods B. Iron rods C. Platinum rods D. Steel rods
15	GM counter uses	A. Alcohol only B. Bromine C. argon D. ...

16	There is no change in A and Z of any radioactive element by the emission of.	A. Alpha particle B. Beta particle C. Gamma particle D. X-rays
17	Bottom quark carries charge :	A. $\frac{2}{3} e$ B. $-\frac{2}{3} e$ C. $+\frac{1}{3} e$ D. $-\frac{1}{3} e$
18	The number of neutron present in a nucleus is given by	A. $N = A + Z$ B. $N = A - Z$ C. $N = Z - A$ D. $N = A \times Z$
19	Iodine -131 is used for the treatment by	A. Bones B. Eyes C. thyroid glands D. Lungs
20	When gamma rays are emitted, the nuclear mass.	A. Decreases by 4 units B. Does not change C. Increases by 2 units D. Increase by 1 unit