Physics FSC Part 2 Chapter 21 Online MCQ's Test

Sr	Questions	Answers Choice
1	Gamma radiations are emitted due to:	A. De-excitation of atom B. De-excitation of nucleus C. Excitation of atom D. Excitation of nucleus
2	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
3	The radio active nuclide $_{86}Ra^{228}$ decays by a series of emissions of three alpha particles and one beta particle. The nuclide X finally formed is:	A. ₆₄X²²⁰ B. ₈₆X²²² C. ₈₄X²¹⁶ D. ₈₈X²¹⁵
4	The energy equivalent of 1 kg of matter is about:	A. 10⁻¹⁵ J B. 1 J C. 10⁻¹²J D. 10⁻¹⁷J
5	Mass equivalent of 931 MeV energy is:	A. 6.02 x 10⁻²³ kg B. 1.766 x 10⁻²⁷kg C. 2.67 x 10⁻²⁹kg D. 6.02 x 10⁻⁸⁷kg
6	How many neutrons are there in the nuclide Zn^{66}?	A. 22 B. 30 C. 36 D. 66
7	The bnding energy for nucleus A is 7.7 Me V and that for nucleus B is 7.8 MeV. Which nucleus has the larger mass?	A. Nucleas A B. Nucleus B C. Less than nucleus D. None of these
8	Controlling rods inserted into the reactor are of metal:	A. Aluminium B. Cadmium C. Magnesium D. Copper
9	Nuclear fission was discovered by:	A. Otto Hahn B. Friz strassmann C. Both a and b D. Michaelson
10	Binding energy per nucleus for uranium is above:	A. 6.7 Mev B. 7.7 Mev C. 6.9 MeV D. 7.9 MeV
11	James chadwick discovered:	A. Proton B. Positron C. Neutron D. Electron
12	I amu =	A. 9.31 MeV B. 931 MeV C. 9.031 MeV D. None of above
13	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
14	Rutherford performed on experiment on a nuclear reaction in:	A. 1921 B. 1981 C. 1927 D. 1932
15	The unit of radioactivity is:	A. Bequerel B. Henry C. Pascal D. Joule

16	Those elements whose charge number z is greater then _____ are unstable:	A. 80 B. 79 C. 82 D. 83
17	The binding energy for_____ is maximum.	A. Copper B. Glass C. Iron D. Aluminum