

Physics ECAT Pre Engineering Chapter 21 Nuclear Physics

Sr	Questions	Answers Choice
SI	Questions	
1	For an atom having atomic number Z and atomic weight A, the charge on the nucleus is	A. A - Z B. A + Z C. Z D. A
2	When certain nucleus emits an particle, its mass number:	A. Increases by one B. Decreases by one C. Remain same D. Decreases by four E. None of these
3	Radium was discovered by:	A. Becquerel B. Marie curie C. Pierre curie D. Rutherford E. Both (B) and (C)
4	Neutrons are	A. positive charge B. negatively charged C. massless D. neutral
5	The range of β -particle in air is greater than that of α -particle by	A. 1000 times B. 100 times C. 15 times D. 10 times
6	For an atom having atomic number 'Z' and atomic weight 'A', the number of neutrons in the nucleous is	A. A - Z B. A C. Z D. A + Z
7	Radioactivity	A. is exhibited more by semiconductors in general B. in exhibited more by the element when they are coupled C. with other radioactive elements by a covalent bond D. is an atomic property of radioactive elements
8	The chemical behaviour of an atom is determined by	A. binding energy B. atomic number C. mass number D. number of isotopes
9	The nucleous of uranium -235 differs from a nucleous of a uranium -238 in that the later contains	A. 3 more neutrons B. 3 more electrons C. 3 more protons D. 3 more ions
10	Neutron was discovered in	A. 1915 B. 1920 C. 1925 D. 1932
11	Mass of proton is	A. 1.67 x 10 ⁻²⁷ kg B. 1.67 x 10 ⁻³¹ kg C. 1.66 x 10 ⁻³⁴ kg D. 1.67 x 10 ⁻¹⁷ kg
12	Charge on neutron is	A. 1.6 x 10 ⁻¹⁹ C B. zero C1.6 x 10 ⁻¹⁹ C D. 1.2 x 10 ⁻¹⁹ C
13	Structure of the nucleus was explained by	A. J.J Thomson B. Bohr C. Millikan D. Rutherford
14	The number of protons inside a nucleus is called	A. mass number B. atomic weight C. atomic number

		D. none of these
15	Which of these is not a radiation detector	A. Wilson cloud chamber B. cyclotron acceleration C. Geiger Miller counter D. solid state detector
16	Maric Curie and Pieree Curie discovered two new radioactive elements, which are called	A. polonium uranium B. uranium and radium C. polonium and radium D. none of these
17	Electrons are	A. positive charged B. negatively charged C. massless D. neutral
18	Which of the following material has smaller has life	A. uranium B. polonium C. radium D. radian
19	There is present in paraffin a large amount of:	A. Nitrogen B. Hydrogen C. Carbon D. Baryllium E. Lithium
20	The half life of radioactive substances depends upon	A. amount of substance B. energy of substance C. state of substance D. temperature of substance