

Physics ICS Part 2 Chapter 20 Online MCQ's Test

Sr	Questions	Answers Choice
1	The Balmer series is obtained when all the transition of electrons terminate on	A. 1 st orbit B. 2 nd orbit C. 3 rd orbit D. 4 th orbit
2	Radius of first orbit of an atom is $r_1 = 0.053 \text{ nm}$, Radius of second orbit r_2 will be.	A. 0.106 nm B. 0.212 nm C. 0.053 nm D. $0.53 \times 10^{-10} \text{ nm}$
3	The velocity of electron moving in 1 st orbit of hydrogen atom is:	A. $2.09 \times 10^6 \text{ ms}^{-1}$ B. $2.18 \times 10^6 \text{ ms}^{-1}$ C. $2.19 \times 10^6 \text{ ms}^{-1}$ D. $3.18 \times 10^6 \text{ ms}^{-1}$
4	Radius of first Bohr's orbit is.	A. 0.053 nm B. 0.053 mm C. 0.053 micro meter D. 0.053 m
5	The following gas was identified in the sun using spectroscopy	A. Hydrogen B. Helium C. Carbon D. Nitrogen
6	Which series lies in the ultraviolet region.	A. Balmer series B. Bracket series C. Pfund series D. Lyman series
7	The first laser was built by	A. Arthur Schawlow B. T.H. Maiman C. Peter Sorokin D. C.H. Townes
8	The radius of hydrogen atom is:	A. 0.53 \AA B. 0.053 \AA C. 0.53×10^{-9} D. 0.053×10^{-9}
9	Charge on positron is:	A. Negative B. Positive C. Neutral D. None of these
10	The first theory about the structure of an atom was introduced by	A. Neil Bohr B. Einstein C. Compton D. Rutherford
11	An electron in H-atom is excited from ground state $n=4$, How many spectral lines are possible in this case.	A. 6 B. 5 C. 4 D. 3
12	Laser is a beam of light which is	A. Monochromatic B. Coherent C. Unidirectional D. All of these
13	Paschen series lies in the	A. Far ultraviolet region B. Visible region C. Ultraviolet region D. Infrared region
14	Production of x rays is reverse process of	A. Photo electric effect B. Compton effect C. Annihilation D. Pair production

15	Energy produced due to fission of uranium atom is:	A. 500MeV B. 200MeV C. 700MeV D. 750MEV
16	A° is the unit of:	A. Energy B. Length C. Nuclear energy D. Work
17	The first spectral lines were discovered in 1885, were	A. Paschen series B. Balmer series C. Pfund series D. Bracket series
18	In Helium Neon laser, discharge tube is filled with Neon gas.	A. 10% B. 15% C. 85% D. 90%
19	Which of the following series of hydrogen spectrum lies in ultra violet region.	A. Lyman series B. Paschen series C. Balmer series D. Bracket series
20	If electron jumps from second orbit to first orbit in hydrogen atom it emits photon of.	A. 3.40 eV B. 10.20 eV C. 13.6 eV D. 3.8 eV