Physics ICS Part 2 Chapter 20 Online MCQ's Test

Sr	Questions	Answers Choice
1	For an atom of hydrogen atom the radius of the first orbit is given by:	A. H/me² B. me/4h² C. h2/4π² kme² D. h² me²
2	Balmer series lies in	A. Visible region B. Invisible region C. Ultraviolet region D. Infrared region
3	The first laser was built by	A. ArthursSchawalow B. T.H.Maiman C. Peter Sorokin D. C.H.Townes
4	Laser is a beam of light which is	A. Monochromatic B. Coherent C. Unidirectional D. All of these
5	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
6	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
7	For Paschen series, the value of 'n' starts from	A. 2 B. 4 C. 6 D. 8
8	Hydrogen atom spectrum does not lie in	A. Ultraviolet region B. Visible region C. Infrared region D. X ray region
9	Energy produced due to fission of uranium atom is:	A. 500MeV B. 200MeV C. 700MeV D. 750MEV
10	The velocity of electron moving is 1st orbit of hydrogen atom is:	A. 2.09 x 10⁶ ms⁻¹ B. 2.18 x10⁶ ms⁻¹ C. 2.19 x 10⁶ ms⁻¹ D. 3.18 x10⁶ ms⁻¹
11	The unit of Rh is.	A. ms-1 B. m C. m² D. m⁻¹
12	Frequency of x-rays depends upon.	A. Number of electrons striking target B. Accelerating potencial C. Nature of the target D. Both B and C
13	First spectral series of hydrogen atom was discovered by	A. Lyman B. Rydberg C. Balmer D. Paschen
14	The following gas was identified in the sun using spectroscopy	A. Hydrogen B. Helium C. Carbon

		D. Nitrogen
15	Radius of first orbit of an atom is r1= 0.053 nm, Radius of second orbit r2 will be.	A. 0.106 nm B. 0.212 nm C. 0.053 nm D. 0.53 x 10^{-10} nm
16	Helium-Neon laser discharge tube contains neon	A. 82% B. 15% C. 25% D. 85%
17	Paschen series lies in the	A. Far ultraviolet region B. Visible region C. Ultraviolet region D. Inferred region
18	The rest mass x ray photon is	A. Infinite B. Zero C. 1.67 X⁻¹⁷ kg D. All of the above
19	In Helium Neon laser, discharge tube is filled with Neon gas.	A. 10% B. 15% C. 85% D. 90%
20	The value of Rydberg constant is:	A. 1.0749x10⁷m⁻¹ B. 1.0974 x 10⁷ m⁻¹ C. 1.974 x10⁶m⁻¹ D. 1.0974 x 10⁻⁷ m⁻¹