Physics FSC Part 2 Chapter 20 Online MCQ's Test

Sr	Questions	Answers Choice
1	Balmer series lies in	A. Visible region B. Invisible region C. Ultraviolet region D. Infrared region
2	When an electron in an atom goes from a lower to higher orbit its:	A. K.E increases , P.E decreases B. K.E increases , P.E increases C. K.E decreases , P.E increases D. K.E decreases , P.E decreases
3	Kx -Xrays are produced due to transition of electron from.	A. K to L shell B. L to K shell C. M to K shell D. M to L shell
4	The radius of hydrogen atom is:	A. 0.53A° B. 0.053A° C. 0.53 x 10⁻⁹ D. 0.053 x10⁻⁹
5	_____ has the largest de Broglie wavelength at same speed.	A. Proton B. Alpha particle C. Carbon atom D. Electron
6	Hydrogen atom spectrum does not lie in	A. Ultraviolet region B. Visible region C. Infrared region D. X ray region
7	Electron volt is unit of:	A. Chemical energy B. Potential energy C. Nuclear energy D. heat energy
8	Radius of first Bohr's orbit is.	A. 0.053 nm B. 0.053 mm C. 0.053 micro meter D. 0.053 m
9	An atom can reside in excited state for	A. 10⁻⁸ second B. One second C. 10⁻¹⁰ second D. More than one second
10	The value of Rydberg constant is	A. 1.0974 x 10⁷ m⁻¹ B. 1.0974 x 10⁻⁷ m⁻¹ C. 1.0974 x 10⁶ m⁻¹ D. 1.0974 x 10⁻⁶ m⁻¹
11	Production of x rays is reverse process of	A. Photo electric effect B. Compton effect C. An nihilation D. Pair production
12	Which of the following series of hydrogen spectrum lies in ultra violet region.	A. Lyman sereis B. Paschen series C. Balmar series D. Bracket series
13	Reflecting mirrors in laser is used to	A. Further stimulation B. For producing more energetic lasers C. Both (a) and (b) D. None of these
14	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
15	Earth orbital speed is	A. 10 km/s B. 20 km/s C. 30 km/s D. 40 km/s
16	The rest mass x ray photon is	A. Infinite B. Zero C. 1.67 X⁻¹⁷ kg D. All of the above
17	The longest wavelength of Paschen series is.	A. 656 nm B. 1094 nm C. 1875 nm D. 2000 nm
18	Balmer series lies in region of electromagnetic spectrum.	A. Infrared B. Visible C. Ultraviolet D. Fra infrared
19	The following gas was identified in the sun using spectroscopy	A. Hydrogen B. Helium C. Carbon D. Nitrogen
20	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