

Physics ICS Part 2 Chapter 20 Online MCQ's Test

Sr	Questions	Answers Choice
1	Production of x rays is reverse process of	A. Photo electric effect B. Compton effect C. Anihilation D. Pair production
2	_____ has the largest de Broglie wavelength at same speed.	A. Proton B. Alpha particle C. Carbon atom D. Electron
3	The series in infrared region is:	A. Paschen series B. Bracket series C. Pfund series D. All of above
4	Which is not true for X rays	A. X rays are not defected by electric field B. X rays are polarized C. X rays consist of electromagnetic waves D. X rays can be diffracted by grating
5	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. $0.53 \times 10^{-10} \text{ nm}$
6	The first spectral lines were discovered in 1885, were	A. Paschen series B. Balmer series C. Pfund series D. Bracket series
7	X- ray diffraction reveals that these are	A. Particle type B. Wave type C. Both wave and particle D. None of above
8	Helium-Neon laser discharge tube contains neon	A. 82% B. 15% C. 25% D. 85%
9	K α -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
10	Earth orbital speed is	A. 10 km/s B. 20 km/s C. 30 km/s D. 40 km/s
11	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
12	Balmer Empirical formula explains the electromagnetic radiation of any excited atom in terms of their.	A. Energy B. Mass C. Wave length D. Momentum
13	The shortest wave length is Bracket series has wave length.	A. $16/R_n$ B. $R_n/16$ C. $16 R_n$ D. $4 R_n$
14	Life time of metastable states is	A. 10^{-6} sec or more B. 10^{-3} sec or more C. 10^{-5} sec or more D. None of these
		A. Meta stable

15	Laser can be made by creating.	B. Population inversion C. Excited state D. All of these
16	The following gas was identified in the sun using spectroscopy	A. Hydrogen B. Helium C. Carbon D. Nitrogen
17	The longest wavelength of Paschen series is.	A. 656 nm B. 1094 nm C. 1875 nm D. 2000 nm
18	In the Bohr's model of the hydrogen atom, the lowest orbit corresponds to:	A. Infinite energy B. Maximum energy C. Minimum energy D. Zero energy
19	Helium Neon Laser Beam emitted from discharge tube has a colour.	A. Blue B. Green C. Red D. Black
20	Charge on an atom is:	A. Positive B. Negative C. Neutral D. None of these