

Physics ICS Part 2 Chapter 20 Online MCQ's Test

Sr	Questions	Answers Choice
1	In Helium Neon laser, the discharge tube is filled with	A. 80% He, 20% Neon B. 85% He, 15% Neon C. 83% He, 17% Neon D. 90% He, 10% Neon
2	In an electronic transition atom cannot emit.	A. Infrared radiations B. Visible radiations C. Ultraviolet radiations D. Gama radiations
3	The first spectral lines were discovered in 1885, were	A. Paschen series B. Balmer series C. Pfund series D. Bracket series
4	Which is not characteristic of Laser.	A. Monochromatic B. Coherent C. Intense D. Multi direction
5	Which series lies in the ultraviolet region.	A. Balmer series B. Bracket series C. Ptund series D. Lyman series
6	X-rays were discovered by	A. Curie B. Henry Becquerel C. Rontgen D. None of these
7	Balmer series lies in	A. Visible region B. Invisible region C. Ultraviolet region D. Infrared region
8	Laser can be made by creating.	A. Meta stable B. Population inversion C. Excited state D. All of these
9	Which of the following is one of the spectral series of atomic hydrogen?	A. Brockett series B. Balmer series C. P fund series D. All of above
10	A° is the unit of:	A. Energy B. Length C. Nuclear energy D. Work
11	The following gas was identified in the sun using spectroscopy	A. Hydrogen B. Helium C. Carbon D. Nitrogen
12	Photons emitted in inner shell transition are.	A. Continuous X-rays B. Discontinuous X rays C. Characteristic X rays D. Energetic X rays
13	The radius of hydrogen atom is:	A. 0.53A° B. 0.053A° C. 0.53×10^{-9} D. 0.053×10^{-9}
14	The process by which lesser beam can be used to generate 3-dimensional images of objects is called	A. Holography B. Geo graphy C. Tomography D. Radio graphy
15	The first laser was built by	A. ArthursSchawalow B. T.H.Maiman C. Peter Sorokin D. C.H.Townes

16	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
17	Laser is a beam of light which is	A. Monochromatic B. Coherent C. Unidirectional D. All of these
18	The radius of 10th orbit in hydrogen atom is.	A. 0.053 nm B. 0.53 nm C. 5.3 nm D. 53 nm
19	The value of Rydberg constant is:	A. $1.0749 \times 10^7 \text{ m}^{-1}$ B. $1.0974 \times 10^7 \text{ m}^{-1}$ C. $1.974 \times 10^6 \text{ m}^{-1}$ D. $1.0974 \times 10^{-7} \text{ m}^{-1}$
20	Target material used in x-rays tube have following properties.	A. High atomic number and high melting point B. High atomic number and low melting point C. Low atomic number and low melting point D. High atomic number only