Physics FSC Part 2 Chapter 20 Online MCQ's Test

Sr	Questions	Answers Choice
1	Laser is a device which can produce:	A. Intense beam of light B. Coherant beam of light C. Monochromatic beam of light D. All of the above
2	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
3	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
4	X- ray diffraction reveals that these are	A. Particle type B. Wave type C. Both wave and particle D. None of above
5	Energy produced due to fission of uranium atom is:	A. 500MeV B. 200MeV C. 700MeV D. 750MEV
6	Target material used in x-rays tube have following properties.	A. High atomic number and high melting pouint B. High atomic number and low melting pouint C. Low atomic number and low melting pouint D. High atomic number only
7	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
8	In according with Bohr's theory the K.E of the electron is equal to:	A. ke²/2r B. Ze²/r C. Ze²/r² D. Ze²/2r²
9	The first orbit in the hydrogen atom has a radius.	A. 0.53 nm B. 0.053 nm C. 0.0053 nm D. 0.00053 nm
10	The temperature of core of nuclear reactor is:	A. 1100°C B. 1200°C C. 1300°C D. 1400°C
11	The series in visible region is:	A. Balmer series B. Pfund series C. Paschen series D. None of above
12	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
13	Balmer Empirical formula explains the electromagnetic radiation of any excited atom in terms of their.	A. Energy B. Mass C. Wave length D. Momentum
14	Which series lies in the ultraviolet region.	A. Balmer series B. Bracket series C. Ptund series

		D. Lyman series
15	The longest wavelength of Paschen series is.	A. 656 nm B. 1094 nm C. 1875 nm D. 2000 nm
16	An atom can reside in excited state for	A. 10⁻⁸ second B. One second C. 10⁻¹⁰ second D. More than one second
17	Which is not characteristic of Laser.	A. Monochromatic B. Coherent C. Intense D. Multi direction
18	Production of x rays is reverse process of	A. Photo electric effect B. Compton effect C. An nihilation D. Pair production
19	The unit of Rh is.	A. ms-1 B. m C. m² D. m⁻¹
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