

## Physics ICS Part 2 Chapter 20 Online MCQ's Test

Sr	Questions	Answers Choice
1	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
2	Radius of first Bohr's orbit is.	A. 0.053 nm B. 0.053 mm C. 0.053 micro meter D. 0.053 m
3	The following gas was identified in the sun using spectroscopy	A. Hydrogen B. Helium C. Carbon D. Nitrogen
4	We can find from de Broglie formula	A. Wavelength B. Amplitude C. Speed of wave D. Frequency of wave
5	_____ has the largest de Broglie wavelength at same speed.	A. Proton B. Alpha particle C. Carbon atom D. Electron
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	Radius of first orbit of an atom is $r_1 = 0.053$ nm, Radius of second orbit $r_2$ will be.	A. 0.106 nm B. 0.212 nm C. 0.053 nm D. $0.53 \times 10^{-10}$ nm
8	The energy of 4th Orbit in hydrogen atom is.	A. -2.51 eV B. -3.50 eV C. -13.60 eV D. -0.85 eV
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	Earth orbital speed is	A. 10 km/s B. 20 km/s C. 30 km/s D. 40 km/s
11	The radius of 10th orbit in hydrogen atom is.	A. 0.053 nm B. 0.53 nm C. 5.3 nm D. 53 nm
12	The unit of $R_h$ is.	A. $\text{ms}^{-1}$ B. m C. $\text{m}^2$ D. $\text{m}^{-1}$
13	The longest wavelength of Paschen series is.	A. 656 nm B. 1094 nm C. 1875 nm D. 2000 nm
14	Paschen series lies in the	A. Far ultraviolet region B. Visible region C. Ultraviolet region D. Inferred region
15	Hydrogen atom spectrum does not lie in	A. Ultraviolet region B. Visible region C. Infrared region D. None of these

D. X ray region

16 Which of the following series of hydrogen spectrum lies in ultra violet region.

- A. Lyman series
- B. Paschen series
- C. Balmer series
- D. Bracket series

17 First spectral series of hydrogen atom was discovered by

- A. Lyman
- B. Rydberg
- C. Balmer
- D. Paschen