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

| Sr | Questions | Answers Choice |
|---|---|---|
| 1 | The first laser was built by | A. ArthursSchawalow<br>B. T.H.Maiman<br>C. Peter Sorokin<br>D. C.H.Townes |
| 2 | Black Body radiation spectrum is an example of: | A. Atomic spectra<br>B. Line spectra<br>C. Continuous spectra<br>D. None of above |
| 3 | The longest wavelength of Paschen series is. | A. 656 nm<br>B. 1094 nm<br>C. 1875 nm<br>D. 2000 nm |
| 4 | The line radiations emitted from by hydrogen filled discharge tube can be analyzed into. | A. Band spectrum<br>B. Line spectrum<br>C. Continuous spectrum<br>D. Absorption spectrum |
| 5 | The series in infrared region is: | A. Paschen series<br>B. Bracket series<br>C. Pfund series<br>D. All of above |
| 6 | Balmer Empirical formula explains the electromagnetic radiation of any excited atom in terms of their. | A. Energy<br>B. Mass<br>C. Wave length<br>D. Momentum |
| 7 | Electron volt is unit of: | A. Chemical energy<br>B. Potential energy<br>C. Nuclear energy<br>D. heat energy |
| 8 | In the Bohr's model of the hydrogen atom, the lowest orbit corresponds to: | A. Infinite energy<br>B. Maximum energy<br>C. Minimum energy<br>D. Zero energy |
| 9 | Radius of first orbit of an atom is r1= 0.053 nm, Radius of second orbit r2 will be. | A. 0.106 nm<br>B. 0.212 nm<br>C. 0.053 nm<br>D. 0.53 x 10<sup><a href="null">-10</a></sup> nm |
| 10 | Kx -Xrays are produced due to transition of electron from. | A. K to L shell<br>B. L to K shell<br>C. M to K shell<br>D. M to L shell |
| 11 | Which is not true for X rays | A. X rays are not defected by electric field<br>B. X rays are polarized<br>C. X rays consist of electromagnetic waves<br>D. X rays can be diffracted by grating |
| 12 | Balmer series lies in region of electromagnetic spectrum. | A. Infrared<br>B. Visible<br>C. Ultraviolet<br>D. Fra infrared |
| 13 | First spectral series of hydrogen atom was discovered by | A. Lyman<br>B. Rydberg<br>C. Balmer<br>D. Paschen |
| 14 | We can find from de Broglie formula | A. Wavelength<br>B. Amplitude<br>C. Speed of wave<br>D. Frequency of wave |
| | | A. Curie |

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| 15 | X-rays were discovered by | B. Henry Becquerel<br>C. Rontgen<br>D. None of these |
| 16 | 1 rem = | A. 0.001 SV<br>B. 0.01 SV<br>C. 0.1 SV<br>D. 1.01 SV |
| 17 | The Balmer series is obtained when all the transition of electrons terminate on | A. 1<sup>st</sup> orbit<br>B. 2nd orbit<br>C. 3rd orbit<br>D. 4th orbit |
| 18 | For Holography we use | A. X ray<br>B. Laser<br>C. gama rays<br>D. Beta rays |
| 19 | An electron in H -atom is excited from ground state n=4 , How many spectral lines are possible in this case. | A. 6<br>B. 5<br>C. 4<br>D. 3 |
| 20 | _____ has the largest de Broglie wavelength at same speed. | A. Proton<br>B. Alpha particle<br>C. Carbon atom<br>D. Electron |