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

| Sr | Questions | Answers Choice |
|---|---|---|
| 1 | 1 rem = | A. 0.001 SV<br>B. 0.01 SV<br>C. 0.1 SV<br>D. 1.01 SV |
| 2 | The X-rays diffraction with crystal was first studied by | A. W.H Bragg<br>B. W.L. Bragg<br>C. Michelson<br>D. None of these |
| 3 | We can find from de Broglie formula | A. Wavelength<br>B. Amplitude<br>C. Speed of wave<br>D. Frequency of wave |
| 4 | The energy of 4th Orbit in hydrogen atom is. | A. -2.51 eV<br>B. -3.50 eV<br>C. -13.60 eV<br>D. -0.85 eV |
| 5 | Charge on positron is: | A. Negative <br>B. Positive<br>C. Netural<br>D. None of these |
| 6 | When an electron in an atom goes from a lower to higher orbit its: | A. K.E increases , P.E decreases<br>B. K.E increases , P.E increases<br>C. K.E decreases , P.E increases<br>D. K.E decreases , P.E decreases |
| 7 | The following gas was identified in the sun using spectroscopy | A. Hydrogen<br>B. Helium<br>C. Carbon<br>D. Nitrogen |
| 8 | Which series lies in the ultraviolet region. | A. Balmer series<br>B. Bracket series<br>C. Ptund series<br>D. Lyman series |
| 9 | A° is the unit of: | A. Energy<br>B. Length<br>C. Nuclear energy<br>D. Work |
| 10 | X- ray diffraction reveals that these are | A. Particle type<br>B. Wave type<br>C. Both wave and particle<br>D. None of above |
| 11 | Laser can be made by creating. | A. Meta stable<br>B. Population inversion<br>C. Excited state<br>D. All of these |
| 12 | 1 rad = | A. 0.001Gy<br>B. 0.01Gy<br>C. 0.1Gy<br>D. 1.01Gy |
| 13 | The 1$^{st}$ Bohr atom in the hydrogen atom has radius | A. 3.56 x 10<sup>-10</sup> m<br>B. 0.053 x 10<sup>-11</sup> m<br>C. 0.53 x 10<sup>-11</sup> m<br>D. 5.30 x 10<sup>-11</sup> m |
| 14 | 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 |
| 15 | When meta l is heated sufficiently electrons are given off by the metal. This phenomenon is known as. | A. Photoelectric effect<br>B. Piezo electric effect<br>C. Thermionic emission<br>D. Secondary emission |

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| 16 | Helium Neon Laser Beam emitted from discharge tube has a colour. | A. Blue<br>B. Green<br>C. Red<br>D. Black |
| 17 | Laser is a device which can produce: | A. Intense beam of light<br>B. Coherant beam of light<br>C. Monochromatic beam of light<br>D. All of the above |
| 18 | For Paschen series, the value of 'n' starts from | A. 2<br>B. 4<br>C. 6<br>D. 8 |
| 19 | Bremsstrahlung radiation are examples of | A. Atomic spectra<br>B. Molecular spectra<br>C. Continuous spectra<br>D. Discrete spectra |
| 20 | If the ionization energy of hydrogen atom is 13.6 eV, its ionization potential will be | A. 136.0 volt<br>B. 3.0 volt<br>C. 13.6 volt<br>D. None of these |