

ECAT Pre General Science Physics Chapter 20 Atomic Spectra Online Test

| Sr | Questions | Answers Choice |
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| 1 | X-rays produced in a tube operating at 10^5 V. The speed of X-rays produced is | A. 3×10^8 m/s B. 3.1×10^8 m/s C. 2.8×10^8 m/s D. 1.88×10^8 m/s |
| 2 | In helium Neon Laser Neon = 15% and Helium = 85% used. The lasing gas this unit is | A. Helium B. Neon C. Both D. None of these |
| 3 | The value of the metastable state for Neon is | A. 20.66eV B. 20.61eV C. 19.23eV D. 18.70eV |
| 4 | In flesh, light element like carbon, hydrogen and oxygen predominate. Three elements allows _____ amount of incident X-ray to pass through them | A. Small B. Greater C. Equal D. Sometimes |
| 5 | X-ray are also known as | A. Roentgen rays B. Maxwell rays C. Plank range D. Einstein rays |
| 6 | The minimum wavelength of X-rays produced of 1KV potential difference is applied across the anode and cathode of the tube is | A. 1.24×10^{-10} m B. 7.92×10^{-20} m C. 2.78×10^{-14} m D. 3.88×10^{-11} m |
| 7 | CT scanning is the abbreviated name of | A. Computed Technology B. Computed Technique C. Computed Technology D. Computerized Technique |
| 8 | The first shell near the nucleus is | A. L-shell B. K-shell C. N-shell D. M-shell |
| 9 | The life time of metastable state is equal to | A. Life time of excited state B. Greater than by excited state C. Zero D. Less than by excited state |
| 10 | We can excite an atom by | A. Bombardment of particles B. Radiating photons C. Providing potential difference D. All answer are true |
| 11 | Ultraviolet region lies in _____ series | A. Lyman B. Balmer C. P fund D. Brackett |
| 12 | Graph of Black body radiation is example of | A. Band spectra B. Continuous spectra C. Line spectra D. All |
| 13 | Photons must have energy equal to | A. ev B. En C. hf D. None of these |
| 14 | Gaussian surface is always: | A. Rectangular B. Spherical C. Cylinder D. Box shape E. Any of these |
| 15 | Coulomb multiplied by volt by volt gives the unit called: | A. farad B. Ohm C. Second D. None of these |

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| | | D. joule E. Watt |
| 16 | Static electricity is produced by the transfer of: | A. Electrons B. Protons C. One fluid D. Two fluid E. None of these |
| 17 | The electric field lines start from: | A. Positive charge B. Negative charge C. Either A and B D. Neutron E. An atom |
| 18 | The photocopying process is called: | A. Geography B. Sonography C. Xerography D. Zerography E. None of these |
| 19 | Selenium is: | A. An insulator B. A conductor C. Both A and B D. Excellent conductor E. None of these |
| 20 | The inkjet printer eject a thin stream of: | A. Water B. Oil C. Ink D. Any above E. None of these |
| 21 | If the distance between two charges is doubled,the force between them will become: | A. Double B. Half C. One third D. One fourth |