

ECAT Physics Chapter 20 Atomic Spectra

| Sr | Questions | Answers Choice |
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| 1 | The range of wavelengths of colurs in the visible colours is | A. 140 nm to 456 nm B. 10 nm to 56 nm C. 410 nm to 656 nm D. 910 nm to 956 nm E. None of these |
| 2 | The holes created in the L and M shells are occupied by transitions of: | A. Electrons from lower states B. Electrons from higher state C. Positrons from higher states D. Electrons from K shell E. Both (A) and (B) |
| 3 | 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 |
| 4 | X-rays can penetrate in a solid matte through a distance of several: | A. Kilo metres B. Metres C. Centimeters D. A few angstroms E. One micrometer |
| 5 | Lyman series in the spectrum of hydrogen exists in the : | A. Infra-red region B. Visible region C. Ultraviolet region D. Both(A) and (B) E. None of these |
| 6 | Balmer series was identified in: | A. 1685 B. 1785 C. 1885 D. 1985 E. 1585 |
| 7 | Tick the series which lie/s in. the infra-red region. | A. Pfund series B. Brackett series C. Paschen series D. All of these E. None of these |
| 8 | The natural arrangement of colours in the spectrum of white light spectrum is | A. VIBGYOR B. ROYBGIV C. ROYBIGV D. BIGROYV E. None of these |
| 9 | The results of spectra obtained by Balmer were expressed in 1896 by: | A. <div>Bohr</div> B. Rydberg C. Planck D. Rutherford E. Coulomb |
| 10 | Atoms of hydrogen gas can be excited by passing electric current through it when the gas is filled into the discharge tube at a pressure which is | A. Less than atmospheric pressure B. Much less than atmospheric pressure C. Greater than atmospheric pressure D. Much greater than atmospheric pressure E. Both C and D |
| 11 | Static electricity is produced by the transfer of: | A. Electrons B. Protons C. One fluid D. Two fluid E. None of these |
| 12 | Braking radiation causes: | A. Continuous spectrum B. Line Spectrum C. Band spectrum D. Discrete specturm E. All of these |

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| 13 | The electric field lines start from: | B. Negative charge C. Either A and B D. Neutron E. An atom |
| 14 | If the distance between two charges is doubled, the force between them will become: | A. Double B. Half C. One third D. One fourth |
| 15 | Tick the series which lies in the visible region: | A. Lyman series B. Balmer series C. Paschen series D. Brackett series E. P fund series |
| 16 | The process of formation of spectrum is called: | A. Interference B. Spectroscopy C. Dispersion D. Reflection E. Botha (A) and (D) |
| 17 | CT scanning is the abbreviated name of | A. Computed Technology B. Computed Technique C. Computed Technology D. Computerized Technique |
| 18 | The photocopying process is called: | A. Geography B. Sonography C. Xerography D. Zerography E. None of these |
| 19 | The lasing or active medium in He-Ne laser discharge tube is: | A. Nitrogen B. Helium C. Hydrogen D. Neon E. None of these |
| 20 | In case of braking radiations, when the rate of deceleration is very large, the emitted radiation corresponds to: | A. Short wavelength B. Large wavelength C. Very large wavelength D. Low frequency E. Both (B) and (C) |