

ECAT Physics Chapter 20 Atomic Spectra

Sr	Questions	Answers Choice
1	If the distance between two charges is doubled,the force between them will become:	A. Double B. Half C. One third D. One fourth
2	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
3	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 x 10 ⁻¹⁰ m B. 7.92 x 10 ⁻²⁰ m C. 2.78 x 10 ⁻¹⁴ m D. 3.88 x 10 ⁻¹¹ m
4	Laser is a beam of:	A. Visible light B. Infra red light C. Ultra violet light D. Violet light only E. yellow light only
5	Coulomb multiplied by volt by volt gives the unit called:	A. farad B. Ohm C. Second D. joule E. Watt
6	Photons must have energy equal to	A. ev B. En C. hf D. None of these
7	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
8	The results of spectra obtained by Balmer were expressed in 1896 by:	A. <div>Bohr</div> B. Rydberg C. Planck D. Rutherford E. Coulomb
9	The inkjet printer eject a thin stream of:	A. Water B. Oil C. Ink D. Any above E. None of these
10	We can excite an atom by	A. Bombardment of particles B. Radiating photons C. Providing potential difference D. All answer are true
11	By CAT scans, we can detect the density difference of the order of:	A. 1% B. 20% C. 30% D. 50% E. 70%
12	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
13	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 wavelenth D. Low frequency

	E. Both (B) and (C)
The transitions of electrons in the hydrogen atom result in the emission of spectral lies in the:	A. Ultra red regionB. Visible regionC. Ultraviolet regionD. Any of theseE. None of these
Braking radiation causes:	A. Continuous spectrum B. Line Spectrum C. Band spectrum D. Discrete specturm E. All of these
Gaussian surface is always:	A. Rectangular B. Spherical C. Cylinder D. Box shape E. Any of these
The first series which was identified in the spectrum of hydrogen is called:	A. Lyman series B. Balmer series C. Paschen series D. Brackett series E. Pfund series
Balmer series lies in that region of electromagnetic wave spectrum which is called:	A. Visible region B. Invisible region C. Infra-red region D. ultraviolet region E. None of these
An compared to solid matter, a crack or an air bubble allows:	A. Great amount of X-rays to pass B. Smallast amount of X-rays to pass C. Very samall amount of X-rays to pass D. Any of these E. None of these
Ultraviolet region lies in series	A. Layman B. Balmer C. P fund D. B racket
	Braking radiation causes: Gaussian surface is always: The first series which was identified in the spectrum of hydrogen is called: Balmer series lies in that region of electromagnetic wave spectrum which is called: An compared to solid matter, a crack or an air bubble allows: