

ECAT Pre General Science Physics Chapter 20 Atomic Spectra

Sr	Questions	Answers Choice
1	The value of the metastable state for Neon is	A. 20.66eV B. 20.61eV C. 19.23eV D. 18.70eV
2	By CAT scans, we can detect the density difference of the order of:	A. 1% B. 20% C. 30% D. 50% E. 70%
3	Coulomb multiplied by volt by volt gives the unit called:	A. farad B. Ohm C. Second D. joule E. Watt
4	Energy required by an electron revolving in certain orbit to jump to an excited state is called:	A. lonization energy B. lonization potential C. Excitation energy D. Excitation potential E. None of these
5	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
6	The spectrum emitted from hydrogen filled discharge tube is:	A. Line spectrum B. Discrete spectrum C. And spectrum D. Absorption spectrum E. Both (A) and (B)
7	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
8	Spectrum represents the number of component colours present in certain light in terms of:	A. Wavelength B. Frequency C. Energy D. Both (A) and (B) E. All of these
9	The photocopying process is called:	A. Geography B. Sonography C. Xerography D. Zerography E. None of these
10	Graph of Black body radiation is example of	A. Band spectra B. Continuo's spectra C. Line spectra D. All
11	The electric field lines start from:	A. Positive charge B. Negative charge C. Either A and B D. Neutron E. An atom
12	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
13	Gaussian surface is always:	A. Rectangular B. Spherical C. Cylinder D. Box shape E. Any of these

14	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
15	X-ray are also known as	A. Roentgen rays B. Maxwell rays C. Plank range D. Einstein rays
16	A metastable stae:	A. Is an excited state B. Is that in which excited electron is stable C. Is that in which excited electron is usually unstable D. Means a time interval of 10 ⁸ second E. Both (A) and (C)
17	The shell closer to the nucleus is called:	A. N shell B. <div>L shell</div> C. K shell D. M shell E. O shell
18	The formula of Brackett series can be obtained by putting in the general formula, the value of n equal to:	A. <div>one</div> B. two C. three D. four E. five
19	Selenium is:	A. An insulator B. A conductor C. Both A and B D. Excellent conductor E. None of these
20	The He-Ne laser discharge tube is filled with:	A. 85% He B. 15% He C. 50% He D. 60% He E. 85% Ne