

## Physics ECAT Pre Engineering Chapter 20 Atomic Spectra

Sr	Questions	Answers Choice
1	An electron of the hydrogen atom in the second orbit is called its:	A. Ground state B. Excited state C. lonized state D. Any of these E. None of these
2	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
3	The photocopying process is called:	A. Geography B. Sonography C. Xerography D. Zerography E. None of these
4	Consider a photon of continuous X-ray and a photon of characteristics X-ray of same wavelength. Which of the following is/are different for the two photons	A. Frequency B. Penetrating power C. Energy D. Method of creation
5	The He-Ne laser discharge tube is filled with:	A. 85% He B. 15% He C. 50% He D. 60% He E. 85% Ne
6	We can excite an atom by	A. Bombardment of particles     B. Radiating photons     C. Providing potential difference     D. All answer are true
7	Laser is a beam of:	A. Visible light B. Infra red light C. Ultra violet light D. Violet light only E. yellow light only
8	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
9	Static electricity is produced by the transfer of:	A. Electrons B. Protons C. One fluid D. Two fluid E. None of these
10	The value of the metastable state for Neon is	A. 20.66eV B. 20.61eV C. 19.23eV D. 18.70eV
11	Ultraviolet region lies in series	A. Layman B. Balmer C. P fund D. B racket
12	Balmer series was identified in:	A. 1685 B. 1785 C. 1885 D. 1985 E. 1585
13	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
14	Photons must have energy equal to	A. ev B. En

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15	The results of spectra obtained by Balmer were expressed in 1896 by:	A. <div>Bohr</div> B. Rydberg C. Planck D. Rutherford E. Coulomb
16	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)
17	The process of formation of spectrum is called:	A. Interference B. Spectroscopy C. Dispersion D. Reflection E. Botha (A) and (D)
18	If the distance between two charges is doubled, the force between them will become:	A. Double B. Half C. One third D. One fourth
19	The inkjet printer eject a thin stream of:	A. Water B. Oil C. Ink D. Any above E. None of these
20	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