

Physics ECAT Pre Engineering MCQ's Test For Full Book

C-	Overtions	Anguara Chaiga
Sr	Questions	Answers Choice
1	If the object and its image are located at a distance of 5 cm from the focus of a convex lens, the focus length of the lens will be:	A. 5 cm B. 10 cm C. 20 cm D. 25 cm
2	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
3	A process is a reversible process, if the entropy of the system	A. increases B. decreases C. remains constant D. none of them
4	The unit of induced emf is:	A. Volt B. Nm/As C. Joule coul ⁻¹ D. Both A and C E. All of these
5	There is certain frequency below which no electrons are emitted from the metal surface, this frequency is known as	A. maximum frequency B. minimum frequency C. threshold frequency D. all of these
6	Which quantity has different dimensions:	A. Work B. Pressure C. Energy D. Torque
7	Within each domain, the magnetic field of all the spinning electrons are	A. parallel B. antiparallel C. perpendicular D. all of them
8	If we plot graph between potential difference (V) and current (I) obeying ohm's law, it will give us	A. parabola B. straight line C. hyper bola D. ellipse
9	Centripetal acceleration is also called acceleration	A. Tangential B. Radial C. Angular D. None of them
10	A dirty carpet is to be cleaned by heating. This is an accordance with law of motion:	A. First B. Second C. Third D. None of these
11	The value of E ₀ in coulomb's law is:	A. 9 x 10 ⁹ Nm ² C ^{- 2} B. 8.85 x 10 ^{- 12} C ² Nxsup>- 12Mxsup>- 12Mxsup>- 2 C. 8.85 x 10 ^{- 12} Mxsup>- 12Nm ² C ^{- 2} D. 9 x 10 ⁹ C ² Nxsup>- 1Nm ² C ^{- 2} D. 9 x
12	The information from far side of the universal are gathered by:	A. Radio telescope B. Microscope C. Telescope D. Spectro scpe
13	Light year is a unit of	A. Time B. Distance C. Velocity D. Intensity of light
		A. Relativistic mechanics

14	I he machines which deals with the objects moving with velocities approaching that of light is called:	B. Wave mechanics C. Quantum D. Statics mechanics
15	With increase of temperature, the viscosity of liquid and gases	A. Increases for both B. Decreases for both C. Increases for liquids and decreases for gases D. Decreases for liquids and increases for gases
16	A charged particle moving at right angle to the magnetic field will experience	A. minimum force B. maximum force C. zero D. moderate force
17	Longitudinal waves are also called:	A. Congressional waves B. Transverse waves C. Radio waves D. None of them
18	Viscosity is defined as	A. the friction between fluid and its container's walls B. the internal friction between two layers of fluid C. the resistance to flow a fluid experiences D. the extent to which outside factors effect the fluid's flow
19	In an ideal gas, the molecules have:	A. Kinetic energy only B. Potential energy only C. Both KE and PE D. None of these
20	Of the following, the option reminds of longitudinal waves.	A. Sound waves B. Heat waves C. Electromagnetic waves D. Light waves