

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The direction of vector in space is specified by:	A. One angle B. Two angles C. Three angles D. None of these
2	Work done is maximum when angle between force and displacement is	A. 0° B. 90° C. 180° D. None of these
3	A signal is amplified at the output without any change of phase, if it is applied at the	A. inverting input B. non-inverting input C. at any of the input D. none of these
4	In the doping process, the ratio of the doping atoms to the semi conductor atom is	A. 1 to 10 B. 1 to 10^3 C. 1 to 10^6 D. 1 to 10^9
5	The valence band of an atom in a solid	A. is always empty B. may or may not be empty C. can never be empty D. none of them
6	An LED emits light when it is:	A. Forward biased B. Reverse biased C. Operated without battery D. Operated with heat source E. None of these
7	According to the electromagnetic wave theory of light, increasing the intensity of incident light should increase the	A. number of photoelectrons B. size of the photoelectrons C. charge on photoelectrons D. K.E of photoelectrons
8	Such an inductor coil which does not consume energy and is often employed for controlling a.c. without consumption of energy is called	A. Choke B. impedance C. Semi-conductor D. None
9	As the current flow through the wire:	A. <p class="MsoNormal" style="text-align:justify">It generates heat in the wire<o:p></o:p></p></p> <p class="MsoNormal" style="text-align:justify">It produces sound in the wire<o:p></o:p></p></p> <p class="MsoNormal" style="text-align:justify">Resistance of the wire decreases<o:p></o:p></p></p> <p class="MsoNormal" style="text-align:justify">Voltage across the ends is increased<o:p></o:p></p></p> E. None of these
10	The unit of work in CGS system is	A. Joule B. Erg C. Dyne D. Watt
11	At what temperature the adiabatic change is equivalent to the isothermal change?	A. Zero degree Celsius B. Zero Kelvin C. Critical temperature

		C. Critical temperature D. Above critical temperature
12	At constant temperature, if the density of the gas is increased, its pressure will:	A. One kg of a substance B. Unit volume of a substance C. One mole of a substance D. None of these
13	Unit of impulse is	A. Newton B. Kg m C. Kg m/s D. Joule
14	In gases, the charge carriers are:	A. Electrons B. Positive ions C. Negative ions D. Both A and C E. Both A and B
15	The circuit in which current and voltage are in phase, the power factor is	A. zero B. 1 C. negative D. 0.83
16	Astrophysics is a branch of physics, which deals with:	A. Sub-atomic particles B. Stars and galaxies C. Light and sound D. Music
17	If a ball comes back to its starting point after bouncing off the wall several times, then its	A. total displacement is zero B. average velocity is zero C. none of them D. both of them
18	A massive object falls through a fluid:	A. Faster B. Slower C. Slowest D. None
19	For multiplication and division purposes, percentage uncertainties are:	A. Add B. subtracted C. Multiplied D. Divided
20	Stock's law holds for:	A. Motion through free space B. Motion through viscous medium C. Bodies of all shapes D. None of these