

## ECAT Physics Online Test

Cr.	Questions	Answers Choice
Sr	Questions	
1	Essential characteristic of equilibrium is	A. Momentum equal to zero     B. Acceleration equal to zero     C. Kinetic energy equal to zero     D. Velocity equal to zero
2	A semi-conductor in its extremely pure form is known as	A. extrinsic semi-conductor B. intrinsic semi-conductor C. either of them D. none of them
3	transverse wave motion is possible in:	A. Air B. A mixture of NH <sub>3</sub> and O <sub>2</sub> C. Strings D. All of these
4	Maximum height of a bullet when fixed at 30 with horizontal is 11 m. Then height when it is fired at $60^{\circ}$ is	A. 22 m B. 6 m C. 33 m D. 7.8 m
5	The temperature scale approved in SI units is:	A. Celsius scale B. Kelvin scale C. Fehrenheit scale D. None of these
6	Terminal velocity is the maximum velocity attained by a spherical droplet when the drag forcethe weight of droplet:	A. Is smaller than B. Is greater than C. Becomes equal to D. None of these
7	Two point charges A and B separated by a distance R attract each other with a force of 12 x $10^{-3}$ N. The force between A and B when the charges on them are doubled and distance is halved	A. 1.92 N B. 19.2 N C. 12 N D. 0.192 N
8	The sum of positive and negative peak values is called:	A. Instantaneous value B. Peak value C. Rms valuie D. Peak-to peak-value E. None of these
9	When monochromatic light is allowed to fall on cathode, it begins to emit electrons, these electrons are called	A. thermoionic electrons B. free electrons C. photoelectrons D. slow electrons
10	In the phenomenon of hysteresis	A. magnetism leads the magnetising current B. magnetism lags behind the magnetising current C. meganetism goes along the magnetising current D. none of them
11	Good absorbers of heat are	A. Poor emitters B. Non emitters C. Good emitters D. Highly polarized
12	How many number of anodes used in electron gun	A. one B. two C. three D. six
13	According to the special theory of relativity, time is	A. absolute quantity B. not absolute quantity C. constant quantity D. none of these
14	The substances whose resistance decreases with the increase in temperature these substances have coefficient of	A. positive temperature B. negative temperature C. absolute temperature D. zero temperature

15	The amplifier which us used to perform mathematical operations electronically is known as	A. calculator B. OP-AMP C. computer D. any one of them
16	When a transistor is used as a switch the circuit in which the current is to be switched OFF and ON, is connected between the	A. base and emitter B. collector and emitter C. base and collector D. any one of these
17	Whenever a covalent bond breaks, it creates:	A. An electron B. A hole C. An electron-hole pair D. A positron E. All of these
18	The property of fluids due to which they resist their own flow is called:	A. Drag force B. Surface tension C. Viscosity D. None of these
19	Computer chips are made from:	A. Iron B. Silicon C. Helium D. Stontium E. Aluminium
20	For making cooking utensils, which of the following pairs of properties is most suited?	A. Low specific heat and high conductivity B. Low specific heat and low conductivity C. High specific heat and high conductivity D. High specific heat and low conductivity