

ECAT Physics Online Test

Cr.	Questions	Anguara Chaica
Sr	Questions	Answers Choice
1	Lenz's law is the consequence of	A. Mass B. Energy conservation C. Momentum conservation D. Charge
2	The half lie of radium-226 is	A. 238 years B. 4.5 x 10 ⁹ days C. 1620 years D. 332 years
3	A projectile on its path gets divided into two pieces at its highest point. Which is true?	A. Momentum increases B. Momentum decreases C. Kinetic energy increases D. Kinetic energy decreases
4	When small number of atoms from some other suitable element is added to the semi- conductor material, then this process is known as	A. impurification B. adding C. doping D. extrinsivity
5	Position was discovered by Carl Anderson in	A. 1920 B. 1925 C. 1928 D. 1932
6	Ball pen functions on the principle of	A. Viscosity B. Boyle's law C. Gravitational force D. Surface tnesion
7	A stationary sound wave has frequency 165 Hz (speed of sound in air = 330 m/s) then distance between two consecutive nodes is	A. 2 m B. 1 m C. 0.5 m D. 4 m
8	The location and speed anywhere on earth can now be determined using relativistic effects by NAVISTAR to an accuracy of	A. 2 cm/s B. 20 cm/s C. 200 cm/s D. 2000 cm/s
9	Surface tension of water is due to	A. Inter molecular attractions B. Inter molecular spaces C. Inter molecular repulsion D. None of above
10	The example of irreversible process is	A. slowly liquification B. slowly evaporation C. an explosion D. all of them
11	Time period of a simple pendulum depends upon the	A. length of the pendulum B. acceleration due to gravity C. none of them D. both of them
12	Bernoulli's equation is important in the field of	A. Electrical circuit B. Magnetism C. Photoelectric effect D. Flow of fluids
13	Tick the conservation force:	A. Tension in a string B. Air resistance string C. Elastic spring force D. Frictional force
14	A process is a reversible process, if the entropy of the system	A. increases B. decreases C. remains constant D. none of them
15	For measuring large currents, an ordinary galvanometer cannot be used without proper, then both relates with each other as	A. modification B. voltage C. current D. resistance

16	The circuit which is used to smooth the output voltage of the full-wave rectification is known as	A. transformer B. rectifier C. filter D. none of these
17	Ultra-violet rays differ from X-rays in that they	A. Cannot be diffracted B. Cannot be polarized C. Have a lower frequency D. Are deviated when they pass through a magnetic field
18	A 5 kg mass is falling freely, the force acting on, it will be	A. 19.6 N B. 9.8 N C. 5 N D. Zero
19	The open loop gain of OP-AMP is of the order of	A. 10 ² B. 10 ³ C. 10 ⁴ D. 10 ⁵
20	The rate change of area expressed is expressed in:	A. None of these B. ms ⁻¹ C. m ² s ⁻² D. ms ⁻² E. m ² s ⁻¹