

ECAT Physics Online Test

Sr	Questions	Answers Choice
1	Acceleration produced in a body by a force varies	A. inversely as the applied force B. directly as the applied force C. directly as the mass of the body D. none of them
2	Solar cell converts sunlight directly into	A. potential energy B. thermal energy C. mechanical energy D. electrical energy
3	Direction of motion_____ in circular of motion:	A. Changes off and on B. Changes continuously C. Does not change D. None of them
4	A police motor cycle running at 140 km/Hr. The apparent frequency heard by the car driver is.	A. Greater than 10 KHZ B. 10 KHZ C. Then siren will not be heard D. Less than 10 KHZ
5	Since the absolute scale is independent of the property of the working substance, hence, can be applied at	A. very high temperature B. very low temperature C. any one of them D. none of them
6	Neutron was discovered by	A. Curie B. Roentgen C. Chadwick D. Rutherford
7	Inertia mass and gravitational mass are	A. opposite B. identical C. identical when there is no friction D. all of them
8	Light appears to travel in straight line because	A. It is not absorbed by the atmosphere B. It is refracted by the atmosphere C. its wavelength is very small D. Its velocity is very large
9	When temperature increase, the frequency of a tuning fork	A. Increases B. Decreases C. Remains same D. Increase or decreases depending on the material
10	When the total displacement is divided by total time taken, we get:	A. Velocity B. Average speed C. Average velocity D. None of these
11	The substances in which, atom are so oriented that their fields support each other and the atoms behave like tiny magnets, are called	A. diamagnetic substances B. ferromagnetic substances C. paramagnetic substances D. all of them
12	Particles have the mass smallest of following is:	A. Electron B. Proton C. Neutron D. Quark
13	When heat is added into the system then change in entropy is	A. negative B. positive C. zero D. any one of them
14	An object undergoes SHM. Its maximum equilibrium positions:	A. Maximum B. Half of its maximum value C. Zero D. None
15	Force is a:	A. Scalar quantity B. Base quantity C. Derived quantity

		D. None of these
16	Which one of the following elasticities is possessed by fluids:	A. Young's elastic modulus (length) B. Bulk elastic modulus (volume) C. Modulus of rigidity (shape) D. None of these
17	Marie Curie and Pierre Curie discovered two new radioactive elements, which are called	A. polonium uranium B. uranium and radium C. polonium and radium D. none of these
18	In Wilson cloud chamber, the air becomes saturated with:	A. Alcohol vapours B. Water C. Helium gas D. Nitrogen gas E. None of these
19	Laplace formula is derived from	A. Isothermal change B. Adiabatic change C. Isobaric change D. None of these
20	The bridge circuit of full wave rectification uses	A. one diode B. two diode C. three diode D. four diode