

ECAT Physics Online Test

Sr	Questions	Answers Choice
1	Neutron was discovered in	A. 1915 B. 1920 C. 1925 D. 1932
2	Which of the following phenomenon proves the particle nature of light	A. interference B. diffraction C. photoelectric effect D. none of these
3	Which of the following is the longitudinal waves?	A. Sound waves B. Waves on plucked string C. Water waves D. Light waves
4	The frequency of free vibrations is known as	A. free frequency B. forced frequency C. natural frequency D. un-natural frequency
5	A container has a small hole in the bottom. Air can go through this hole, but water cannot. This can be best explained by the statement that	A. water contains hydrogen atoms, air does not B. water molecules are smaller than molecules in the air C. water molecules are smaller than molecules in the air D. surface tension of the water prevents it from
6	β -particles are easily deflected by collisions than heavy	A. α -particles B. β -particles C. γ -particles D. none of these
7	Electric field strength is defined as	A. Work done on unit charge B. Force exerted on unit charge C. Distance covered by unit charge D. Power exerted by unit charge E. None of these
8	If one end of a rubber cord is fixed with a support and the other end is wiggled by hand, the waves generated on the cord are:	A. Stationary waves B. Transverse waves C. Both of these D. None of these
9	Curie is a unit of	A. reluctance B. resistivity C. binding energy D. radioactivity
10	Melting point of ice	A. Increases with increasing pressure B. Decreases with increasing pressure C. Is independent of pressure D. Is proportional to pressure
11	Slope of velocity-time graph represents:	A. Acceleration B. Speed C. Torque D. Work
12	The concept of field theory was put forward by	A. Franklin B. Kepler C. Oersted D. Michael Faraday
13	A closed surface contains two equal and opposite charges. The net electric flux from the surface will be	A. Negative B. Positive C. Infinite D. Zero

D. Zero

14	A 100 W, 200 V bulb is connected to a 160 volts supply. The actual power consumption would be	A. 64 W B. 80 W C. 100 W D. 125 W
15	Neutron was suggested to be in the nucleus by:	A. Rutherford in 1920 B. Bohr in 1913 C. Dirac in 1928 D. Anderson in 1932 E. None of these
16	During the upward motion of the projectile, the vertical component of velocity.	A. Decreases B. Increases C. Remains constant D. None of these
17	A conducting wire is drawn to double its length. Final resistivity of the material will be	A. Double of the original one B. Half of the original one C. One fourth of the original one D. Same as original one
18	The force exerted by the fluid in a hydraulic pump on the piston is 10 cm^2 , the fluid pressure on the piston is, in N/cm^2	A. 20 B. 200 C. 2000 D. 20,000
19	The value of threshold frequency for different metals is	A. different B. same C. may be different or may be same D. none of these
20	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