

ECAT Physics Online Test

Sr	Questions	Answers Choice
1	The induced current in a conductor depends upon	A. Resistance of the loop B. Speed with which the conductor moves C. Any of these D. Both A and B E. None of these
2	With the propagation of a longitudinal wave through a material medium, the quantities transmitted in the propagation direction are	A. Energy, momentum and mass B. Energy C. Energy and mass D. Energy and linear momentum
3	Pressure exerted by a gas is	A. Independent of density of the gas B. Inversely proportional to the density of the gas C. Directly proportional to the square of the density of the gas D. Directly proportional to the density of the gas
4	When half of the cycle of a body executing S.H.M is completed, then the phase of the vibration will be	A. 45 ° B. 90 ° C. 135 ° D. 180 °
5	The basis to define a temperature scale that is independent of material properties is provided by	A. carbon cycle B. nitrogen cycle C. Carnot cycle D. irreversible cycle
6	The rate of decay of a radioactive substance	A. decrease exponentially with time B. decreases linearly with time C. increases linearly with time D. increases exponentially with time
7	Which of the following has the greatest coefficient of viscosity?	A. water B. gasoline C. honey D. tar
8	Gauss(G) is smaller unit of magnetic induction which is related to tesla(T) as	A. IT = 10 ⁻⁴ G B. IT = 10 ⁵ G C. IT = 10 ³ G D. IT = 10 ⁴ G
9	The emission of electrons from a metal surface when exposed to light of suitable frequency is called the	A. pair production B. Compton effect C. photoelectric effect D. relativity
10	The cohesive forces between atoms, molecules or ions in crystalline solids maintain the strict	A. short range order B. long range order C. both of them D. none of them
11	The loudness and pitch of a sound note depends on	A. Intensity and velocity B. Frequency and velocity C. Intensity and frequency D. Frequency and number of harmonic
12	Converse of pair production is known as	A. Compton effect B. annihilation of matter C. photoelectric effect D. none of these
		A. Up thrust of air

13	The velocity of falling raindrops attains limited value because of	B. Air currents of the earth atmosphere C. Surface tension effect D. Viscous force exerted by air
14	Pressure exerted by a gas on the walls of its container in due to	A. adhesion between the gas molecules and the container B. cohesion between the gas molecules and the container C. collision between the gas molecules and the container D. surface tension of the gas
15	Which of the following diode is used to derive the current in external circuit when light is incident in the circuit	A. photo diode B. light emitting diode C. photo voltaic cell D. none of these
16	In deriving the Bernoulli's equation, we assume that the fluid is	A. incompressible B. no viscous C. flows in a steady manner D. all of them
17	The displacement coincides with the path of the motion when a body moves is a	A. curved line B. straight line C. may be curved or straight D. none of them
18	Bernoulli's equation is based upon law of conversation	A. Mass B. Momentum C. Energy D. None of these
19	In a moving coil galvanometer, the deflecting couple depends upon	A. area of the coil B. number of turns of coil C. value of magnetic field D. all of the above
20	A capacitor of capacity 1 H F is charged to 1 KV. The energy stored in J	A. 5 B. 0.5 C. 0.005 D. 50