

ECAT Physics Online Test

Sr	Questions	Answers Choice
1	Examples of crystalline solids are:	A. Cooper B. NaCl C. Zirconia D. Both (A) and (B) E. All of these
2	The minimum charge on any object can not be less than	A. 1.6×10^{-19} C B. 3.2×10^{-19} C C. 1.0 C D. 4.8×10^{-19} C
3	Resistance is measured in	A. volts B. ampere C. ohm D. watt
4	The second law gives the relationship between	A. mass and velocity B. force and acceleration C. velocity and acceleration D. mass and weight
5	If a train traveling at 72 kmph is to be brought to rest in a distance of 200 meters then its retardation should be	A. 20 ms^{-2} B. 10 ms^{-2} C. 2 ms^{-2} D. 1 ms^{-2}
6	The counter, which also provides the power to the G.M. tube is called:	A. Thin mica window B. thin glass window C. Airy window D. Wooden window E. None of these
7	An induced current can be produced by	A. Constant magnetic field B. Changing magnetic field C. Varying electric field D. Constant electric field E. None of these
8	Wave disturbances may also come in a concentrated bundle, like shock wave from an aeroplane flying at	A. subsonic speed B. sonic speed C. super sonic speed D. any one of them
9	One mole of any substance contain	A. same number of molecules B. different number of molecules C. may be same or different D. none of them
10	When heat is added into the system then change in entropy is	A. negative B. positive C. zero D. any one of them
11	The temperature at which the speed of sound becomes double as was at 27°C is	A. 273°C B. 0°C C. 927°C D. 1027°C
12	If the objects of different masses move with the same velocity, then it is more difficult to stop the	A. lighter of the two B. massive of the two C. any one of them D. both of them
13	A man sitting in a bus travelling in a direction from west to east with a speed of 40 km/h observes that the rain drops are falling vertically down. To the another man standing on	A. To fall vertically down B. To fall at an angle going from west to east C. To fall at an angle going from east

	ground the rain will appear	to west D. The information given is insufficient to decide the direction of rain
14	Nucleon means:	A. Only electrons B. Only neutrons C. Only protons D. Both (A) and (C) E. Both (B) and (C)
15	The example of reversible process is	A. an explosion B. changes occur suddenly C. slow compression of a gas D. all of them
16	For production of beats the two sources must have	A. Different frequencies and same amplitude B. Different frequencies C. Different frequencies, same amplitude and same phase D. Different frequencies and same phase
17	Range of a projectile is R, when the angle of projection is 30° . Then, the value of the other angle of projection for the same range, is	A. 45° B. 60° C. 50° D. 40°
18	The liquid which conduct current is known as	A. heating effect B. chemical energy C. electrolyte D. ohm's law
19	A point charge Q is placed at the mid-point of a line joining two charges. $4q$ and q . if the net force on charge q is zero. then Q must be equal to	A. $-q$ B. $+q$ C. $-2q$ D. $+4q$
20	An emf is set up in a conductor when it:	A. is kept in a magnetic field B. is kept in a electric field C. Move across a magnetic field D. Both (A) and (B) E. None of these