

ECAT Pre General Science MCQ's Test For Physics Full Book

Sr	Questions	Answers Choice
1	If one of the pipes has a much smaller diameter than the other and are placed horizontally then from both sides of Bernoulli's equation, we can drop the term	A. P B. $\frac{1}{2} \rho v^2$ C. ρgh D. none of them
2	Which of the following can become a good temporarily magnet	A. iron B. steel C. both of them D. none of them
3	Work done along a closed path in a gravitational field is:	A. Maximum B. Minimum C. Zero D. Unity
4	What is the current in a $2 \times 10^6 \Omega$ resistor having a potential difference of 2×10^3 volts?	A. $10^{-1} A$ B. $10^{-2} A$ C. $10^{-4} A$ D. 1 mA
5	Absolute zero is considered as that temperature at which:	A. All liquid become gases B. All gases become liquid C. Water freezes D. None of these
6	An A.C varies as a function of	A. Current B. Voltage C. Time D. Charge
7	When a shell explodes in mid-air, its fragments fly off in	A. only one direction B. in two direction C. different directions D. a particular direction
8	In an A.C. circuit, a resistance of R ohm is connected in series with an inductance L. If phase angle between voltage and current be 45° . the value of inductive reactance will be	A. R/4 B. R/2 C. R D. Cannot be found with the given data
9	The most suitable material for permanent magnet is	A. cobalt B. iron C. steel D. aluminium
10	An isochoric process is one which takes place at	A. Constant internal energy B. Constant entropy C. Constant volume D. Constant pressure
11	The force acting as one meter length of the conductor placed at right angle to the magnetic field, when one A current is passing through it, defines the	A. magnetic flux B. magnetic induction C. magnetic field D. self inductance
12	The locus of all the points in the same phase of vibration is called	A. Wave packet B. Wavefront C. Wave number D. None of these
13	The energy found from Einstein's mass energy relation is called	A. binding energy of electron B. binding energy of proton C. binding energy of neutron D. binding energy of nucleus
14	Light has:	A. Wave nature B. Particle nature C. Dual nature D. None of these
15	The resonance will be sharp, if the amplitude decreases rapidly at a frequency	A. equal to the resonant frequency B. slightly different from the resonant frequency C. ... D. ...

		C. greatly different from the resonant frequency D. any one of them
16	The bands below the valence band are	A. completely filled and play active part in conduction process B. completely filled and plays no part in conduction process C. completely filled and play active part in conduction process D. not completely filled and play no part in conduction process
17	The direction of vector in space is specified by:	A. One angle B. Two angles C. Three angles D. None of above
18	The electrons occupying the conduction band are known as	A. conduction electrons B. free electrons C. both of them D. none of them
19	Carnot heat engine only used	A. isothermal processes B. adiabatic processes C. both of them D. none of them
20	Capacitance of two or more capacitors	A. Increases in series combination B. Increases in parallel combination C. Remains unchanged D. None of the above