

ECAT Physics Online Test

Sr	Questions	Answers Choice
1	1 amu is equal to.	A. 1.66 x 10 ⁻²⁴ kg B. 1.66 x 10 ⁻¹⁹ kg C. 1.66 x 10 ⁻²⁴ kg D. 1.66 x 10 ⁻²⁷ kg
2	If a car rest acceleration uniformly to a speed of 144 km/h in 20 s it covers a distance of	A. 20 m B. 400 m C. 1440 m D. 2880 m
3	The working of all DC electric meters (galvanometers, ammetersand voltmeters) depends upon	A. Heating effect of current B. Chemical effect of current C. Magnetic effect of current D. Electromagnetic effect of current
4	The earth's potential is taken as	A. Negative B. Positive C. Zero D. Infinite
5	The study of fluid in motion basically involves law of conservation of:	A. Mass B. Energy C. Change D. Both A and C E. Both A and B
6	Which of the following substances has got positive temperature coefficient of resistance?	A. Carbon B. Germanium C. Silicon D. Aluminium E. None of these
7	A heater coil rated at (1000 W - 200 V) is connected to 110 volt line. What will be the power consumed?	A. 200 W B. 302.5 C. 250 W D. 350 W
8	The number of field lines passing through unit area held perpendicular to the field lines represent:	A. Flux in that region<0:p> B. Intensity of the field<0:p> C. Charge<0:p> D. Area of the region<0:p> E. Area of the region<0:p> E. None of these<0:p>
9	Surface tension of water is due to	A. Inter molecular attractions B. Inter molecular spaces C. Inter molecular repulsion D. None of above
10	The concept of direction and position are purely	A. absolute B. relative C. absolute or relative D. none of these
11	A process in which no heat enters or leaves the system is called	A. isochoric process B. isothermal process

		D. none of them
12	A cold soft drink is kept on the balance. When the cap is opened, then the weight	A. Increases B. Decreases C. First increases, then decreases D. Remains same
13	1 amu is equal to	A. 1.66 x 10 ⁻²⁴ kg B. 1.66 x 10 ⁻¹⁹ kg C. 1.66 x 10 ⁻³⁴ kg D. 1.66 x 10 ⁻²⁷ kg
14	The total number of lines of magnetic induction pasing through a surface perpendicular to the magnetic field is called	A. magnetic flux B. magnetic flux density C. magnetic induction D. magnetic field intensity
15	Bernoulli's equation is based upon law of conversation of	A. mass B. momentum C. Energy D. None
16	The sources of magnetic field are	A. isolated magnetic poles B. charges at rest C. charges in motion D. none of these
17	A body is executing free vibrations when it oscilates	A. with the interference of an external force B. without the interference of an external force C. with the interference of an internal force D. none of them
18	A weakly damped system has fairly	A. sharp resonance curve B. flat resonance curve C. both of them D. none of them
19	At higher frequency of the alternating current, the capacitive reactance X_{C}	A. Increases B. Decreases C. Remains the same D. Increases only when the voltage increases
20	During each cycle, alternating voltage reaches a peak value	A. One time B. Two times C. Four times D. A number of times depending on the frequency

C. adiabatic process