

ECAT Physics Online Test

Sr	Questions	Answers Choice
1	Time period of simple pendulum is independent of	A. length B. mass C. acceleration due to gravity D. none of them
2	The chemical properties of an element depends upon the number of	A. electron B. position C. photons D. neutrons
3	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
4	Which one of the following is the unit of electric field intensity	A. JC ⁻¹ B. Vm ⁻¹ C. Cm ⁻¹ D. CJ ⁻¹
5	When the emitter-base junction of a transistor is reverse biased, collector current	A. Reverses B. Increases C. Decreases D. Stops
6	The smallest three dimensional basic structure in a crystalline solid is called	A. lattice point B. crystal lattice C. cubic crystal D. unit cell
7	If m means mass of gases objected per second from a rocket and v shows the change in velocity, than mv is named as:	A. Force B. Energy C. work D. impulse
8	The resistance of a conductor does not depend on its	A. mass B. resistivity C. length D. cross-sectional area
9	Dimensions of velocity are	A. [L] B. [T] C. [LT ⁻¹] D. [LT ⁻²]
10	The current that flows through the coil of a motor causes:	A. lts shaft to revolve<o:p></o:p> B. lts brushes to rotate<o:p></o:p> C. lts shafts to rotate<o:p></o:p> E. lts shafts to rotate<o:p></o:p> E. lts shafts to rotate<o:p></o:p> E. lts shafts to rotate

		of these <o:p></o:p>
11	At constant volume temperature is increased. Then	A. Collision on walls will be less B. Number of collisions per unit time will increase C. Collision will be in straight lines D. Collision will not change
12	To convert galvanometer into ammeter we connect	A. small resistance in parallel with galvanometer B. small resistance in series with galvanometer C. high resistance in series with galvanometer D. high resistance in parallel with galvanometer
13	The temperature scale approved in SI units is:	A. Celsius scale B. Kelvin scale C. Fehrenheit scale D. None of these
14	When three identical bulbs of 60 watt, 200 volt rating are connected in series to a 200 volt supply, the power drawn by them will be	A. 180 watt B. 10 watt C. 20 watt D. 60 watt
15	While deriving equation of pressure by kinetic theory of gases, we take into account:	A. Only linear motion of molecules B. Only rotational motion C. Only vibratory motion D. All of these
16	A beam of electrons is provided by an	A. electron gun B. Suppray C. Injection D. None of these
17	The unit of decay constant is:	A. Second B. Metre C. Hour D. Year E. Second ⁻¹
18	If one volt is needed to cause a current of one ampere to flow in a conductor, its resistance is	A. one ohm B. one joule C. one volt D. one ampere
19	Fraction of the decaying atoms per unit time is called	A. decay atom B. decay element C. decay constant D. decay
20	What will be the ratio of the distance moved by a freely falling body from rest in 4th and 5th seconds of journey?	A. 4:5 B. 7:9 C. 16:25 D. 1:1

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