ECAT Pre General Science Physics Online Test

Sr	Questions	Answers Choice
1	The special theory of relativity is based on:	A. Four postulates B. Three postulates C. Two postulates D. One postulate E. None of these
2	How much force is required to slide one layer of the liquid over the other layer is measured by	A. friction B. density C. viscosity D. resistivity
3	The SI unit of spring constant is identical with that of:	A. Force B. Surface tension C. Pressure D. Loudness
4	A body with frequency would complete one vibration in:	A. f seconds B. 1/f seconds C. 1 second D. f²second
5	In transverse waves, the individual particles of the medium move:	A. In circles B. Perpendicular to the direction of level C. Parallel to the direction of level D. None of these
6	An oscillating body oscillates due to:	A. Applied force B. Restoring force C. Frictional force D. None of these
7	Electric potential of earth is taken to be zero because the earth is good	A. Semiconductor B. Conductor C. Insulator D. Dielectric
8	When a force is applied on a body, several effects are possible Which of the following effect could not occur?	A. the body rotates B. the body speeds up C. the mass of the body decreases D. the body changes its direction
9	Surface density of charge is defined as	A. Charge per unit volume B. Charge per unit length C. Charge per unit area D. Charge per unit mass
10	The reciprocal of decay constant λ of a radioactive material is:	A. Frequency B. Half life C. Year D. Mean life E. None of these
11	Total number of turns on 0.15 m length solenoid is 300. the value of n is:	A. Greater than 300 B. Smaller than 300 C. Equal to 300 D. Any of (A) or (B) E. Any of (A) or(C)
12	Uncertainty is of following type/types:	A. Absolute B. Fractional C. Percentage D. All of these
13	The waves which propagate through the oscillations of material particles are known as:	A. Mechanical waves B. Electromagnetic waves C. Any of them D. None of them
14	The induced current is 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
15	The current that flows through the coil of a motor causes:	A. Its shaft to revolve<o:p></o:p> B. Its brushes to rotate<o:p></o:p> C. Motor to move<o:p></o:p> D. Its shafts to rotate<o:p></o:p> E. None of these<o:p></o:p>
16	The number of vibrating body at any instant from its equilibrium position is called	A. displacement B. frequency C. amplitude D. time period
17	A circuit has a resistance of 11Ωan inductive reactance of 25$\Omega$and a capacitance reactance of 18Ω. It is connected to an a.c. source of 200 V and 50 Hz. The current through the circuit (in amperes) is	A. 11 B. 15 C. 18 D. 20
18	The string of a simple pendulum should be:	A. Heavy B. Extensible C. In-extensible D. None of these
19	The contrast in the fringes in an interference pattern depends upon	A. Fringe width B. Relative difference intensities of the two sources C. Distance between the slits D. Wavelength
20	While deriving the equation for pressure of a gas we consider the	A. rotational motion of molecules B. vibrational motion of molecules C. linear motion of molecules D. all of them