ECAT Pre General Science Physics Online Test

Sr	Questions	Answers Choice
1	If you are moving at relativistic speed between two points that are a fixed distance apart, then the distance between the two points appers	A. larger B. shorter C. equal D. none of these
2	The charge carries in the electrolyte are:	A. Positive ions<o:p></o:p> B. Negative ions<o:p></o:p> C. Either (A) or (B)<o:p></o:p> D. Both (A) and (B)<o:p></o:p> E. Neither (A) nor (B)<o:p></o:p>
3	In a three phase a.c. generator, there are	A. 2 coils B. 3 coils C. 1 coild D. No coil
4	An object thrown upward with an initial velocity at certain angle with the horizontal and moving freely under the action of gravity is called	A. a rocket B. an aeroplane C. a projectile D. a ballon
5	In L.C.R series A.C. circuit, the phase angle between current and voltage is	A. Any angle between 0 and <u>+</u>π/2 B. π/2 C. π D. Any angle between 0 and<i style="font-family: "Times New Roman"; font-size: 19.8px; color: rgb(34, 34, 34); box-sizing: border-box;">π/2
		A. At the instant the switch is closed

6	Referring to above figure, current in the coil P grows from zero to its maximum value	B. At the instant the switch is opened C. When switch is kept open D. All of above E. Neither of above
7	The process in which energy is dissipated from the oscillating system is known as	A. resonance B. interference C. diffraction D. damping
8	A 50 volt battery is connected across 10 ohm resistor. The current is 4.5 A. The internal resistance of the battery is	A. Zero B. 0.5Ω C. 1.1Ω D. 5.0Ω
9	Heating effect caused by an electric circuit is written	A. H = I²Rt B. H = I²R C. H = IR²t D. H = IR²
10	The quantity have dimension of ML^2T^{02}will have SI unit of:	A. Watt B. Newton C. Joule D. Metre
11	Branch of physics which deals with the study of stars and galaxies is called:	A. Solid state physics B. Astrophysics C. Molecular physics D. Chemical physics
12	Distance traveled by a body falling from rest in the first, second and third second is in the ration of	A. 1 : 2 : 3 B. 1 : 3 : 5 C. 1 : 4 : 9 D. None of the above
13	The velocity of falling raindrops attains limited value because of	A. Up thrust of air B. Air currents of the earth atmosphere C. Surface tension effect D. Viscous force exerted by air
14	The smooth or steady stream-line flow is know as	A. Laminar flow B. Turbulent flow C. Both a and b D. None of the above
15	A laborer carrying a load on his head moves from the rest on a horizontal road to another point where he comes to rest. He has done:	A. Minimum Work B. Maximum Work C. Zero Work D. Negative Work
16	The value for systolic blood pressure for a normal healthy person is	A. 140 torr B. 80 torr C. 90 torr D. 120 torr
17	Generally a temperature scale is established by	A. one fixed point B. two fixed point C. three fixed point D. four fixed point
18	Inertial frame of references are those frame of references which are moving with	A. increasing velocity B. decreasing velocity C. constant velocity D. all of them
19	The strength of magnetic field around the current conductor is	A. Smaller near the conductor B. Greater near the conductor C. Greater at the large distance from the conductor D. Constant near and away from the conductor
20	The time required to complete on vibration is called	A. frequency B. total time C. time period D. velocity