

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

Sr	Questions	Answers Choice
1	When quarter of a cycle is completed, the phase of vibration is:	<p>A. 90°</p> <p>B. 180°</p> <p>C. 45°</p> <p>D. 360°</p>
2	When a positron comes close to an electron they annihilate into photons such that	<p>A. each photon has energy 0.51 MeV</p> <p>B. each photon has energy 1.02 MeV</p> <p>C. each photon has energy 0.25 MeV</p> <p>D. none of these</p>
3	The use of chips in electrons is described in the form of:	<p>A. Yellow boxes</p> <p>B. Black boxes</p> <p>C. Red boxes</p> <p>D. White boxes</p> <p>E. Orange boxes</p>
4	The definite number of significant figures in 5000 is:	<p>A. Four</p> <p>B. Three</p> <p>C. Two</p> <p>D. One</p>
5	The useful unit of the angular displacement in SI unit is:	<p>A. Degree</p> <p>B. Revolution</p> <p>C. Radian</p> <p>D. Metre</p>
6	If a system undergoes a natural process it will go in the direction that causes the entropy of the system plus the environment to increase, this is another statement of	<p>A. second law thermodynamics</p> <p>B. first law of thermodynamics</p> <p>C. third law of thermodynamics</p> <p>D. none of them</p>
7	The charge carriers in electrolyte are positive and negative	<p>A. protons</p> <p>B. electrons</p> <p>C. ions</p> <p>D. none of these</p>
8	A capacitor acts as an infinite resistance for	<p>A. AC</p> <p>B. DC</p> <p>C. Both AC and DC</p> <p>D. Neither AC nor DC</p>
		A. Rate of decrease of magnetic field

9	The magnitude of induced emf depends upon the:	<p>B. Rate of change of magnetic field</p> <p>C. Rate of increase of magnetic flux</p> <p>D. Constancy of magnetic field</p> <p>E. None of these</p>
10	Tick the conservation force:	<p>A. Tension in a string</p> <p>B. Air resistance string</p> <p>C. Elastic spring force</p> <p>D. Frictional force</p>
11	By which velocity a ball be projected vertically so that the distance covered by it in 5th seconds is twice the distance it covers in its 6th second ($g=10\text{m/s}^2$)	<p>A. 58.8 m/s</p> <p>B. 49 m/s</p> <p>C. 65 m/s</p> <p>D. 19.6 m/s</p>
12	Which of the following diodes can operate in the reverse biased condition	<p>A. photo diode</p> <p>B. light emitting diode</p> <p>C. photo voltaic cell</p> <p>D. none of these</p>
13	A capacitor is charged with a battery and then it is disconnected. A slab of dielectric is now inserted between the plates, then	<p>A. The charge in the plates reduces and potential difference increase</p> <p>B. Potential difference between the plates increase, stored energy decreases and charge remains the same</p> <p>C. Potential difference between the plates decreases and charge remains unchanged</p> <p>D. None of the above</p>
14	Watt x second is unit of:	<p>A. Force</p> <p>B. Work</p> <p>C. Power</p> <p>D. None of these</p>
15	Drag force increases if speed of the object moving through the fluid:	<p>A. Increases</p> <p>B. Decreases</p> <p>C. Remains constant</p> <p>D. None of these</p>
16	The vertical component of velocity of a projectile during its motion is minimum	<p>A. at the time of projection</p> <p>B. at the highest point</p> <p>C. just before hitting the plane of projection</p> <p>D. all of them</p>
17	The body passing a viscous medium affected by:	<p>A. One force only</p> <p>B. Two forces only</p> <p>C. Four forces</p> <p>D. None of these</p>
18	When the upward drag force of the fluid becomes equal to downward force of gravity of the droplet, then its velocity:	<p>A. Starts increasing</p> <p>B. Starts decreasing</p> <p>C. Becomes constant</p> <p>D. Is called escape velocity</p>
19	When a dielectric material is introduced between the plates of a charged condenser the electric field between the plates	<p>A. Decreases</p> <p>B. Increases</p> <p>C. No change</p> <p>D. May increase or decrease</p>
20	A dimension stands for the _____ nature of certain physical quantity.	<p>A. super</p> <p>B. Quantitative</p> <p>C. Qualitative</p> <p>D. Both B and C</p>