

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

Sr	Questions	Answers Choice
1	Terminal velocity is the maximum velocity attained by a spherical droplet when the drag force_____the weight of droplet:	<p>A. Is smaller than B. Is greater than C. Becomes equal to D. None of these</p>
2	In the formula $B = \mu_0 n i$, the symbol n denotes:	<p>A. Total number of turns of solenoid B. Number of turns per unit length C. Number of turns per unit volume D. Numbers of turns per unit area E. Number of moles</p>
3	In which of the following components, pn-junction is used	<p>A. light emitting diode B. photo diode C. photo voltaic cell D. all of these</p>
4	A capacitor acts as an infinite resistance for	<p>A. AC B. DC C. Both AC and DC D. Neither AC nor DC</p>
5	The He-Ne laser discharge tube is filled with:	<p>A. 85% He B. 15% He C. 50% He D. 60% He E. 85% Ne</p>
6	The nature of capacity of electrostatic capacitor depends on	<p>A. Shape B. Size C. Thickness of plates D. Area</p>
7	In AND gate, the output is 1 if:	<p>A. Both inputs are 0 B. Both inputs are 1 C. Only one input is 0 D. Both (A) and (B) E. Both (A) and (C)</p>
8	Intensity of light determines the:	<p>A. Energy of each photon B. Number of photons C. Speed of photons D. Size of photons E. None of these</p>
		<p>A. The ball had covered exactly half the distance B. The velocity of the ball was $V/3$ where V</p>

9	A ball is dropped vertically down and it takes time t to reach the ground. At time $t/2$	is the velocity when it reached the ground C. The ball had covered less than half the distance D. The ball had covered more than half the distance
10	Structure of the nucleus was explained by	A. J.J Thomson B. Bohr C. Millikan D. Rutherford
11	In YDS experiment, fringe spacing means the distance between two consecutive _____ fringes.	A. Bright B. Dark C. Any of A and B D. None of these
12	Rocket engines lift a rocket from the earth surface, because hot gas with high velocity	A. Push against the air B. React against the rocket and push it up C. Heat up the air which lifts the rocket D. Push against the earth
13	The mass ' m ' of a body moving at $0.8c$ (whose rest mass is m_0) becomes	A. $2m_0$ B. $1.67m_0$ C. $0.67m_0$ D. $2.67m_0$
14	A ball is dropped from a height of 4.2 meters. To what height will take it rise if there is no loss of KE after rebounding?	A. 4.2 m B. 8.4 m C. 12.6 m D. none of these
15	Ball pen functions on the principle of	A. Viscosity B. Boyle's law C. Gravitational force D. Surface tension
16	The closed loop gain of the inverting amplifier is written as	A. $G = R_2/R_1$ B. $G = 1 + R_2/R_1$ C. $G = -R_2/R_1$ D. $G = 1 - R_2/R_1$
17	Work is always done on a body when:	A. A force acts on it B. It moves through certain distance C. None of A and B is correct D. Both A and B is correct
18	A thermistor with positive temperature coefficient is used to measure temperature in a furnace. As the furnace heats up, the resistance value of the thermistor.	A. Decrease B. Remains unchanged C. Increase D. None of the above
19	Which of the following is not a unit of power:	A. J-sec B. Watt C. N m/sec D. Horsepower
20	When the particles of the medium vibrate about their mean position, along the direction of the motion of waves, then the waves are called:	A. Longitudinal waves B. Transverse waves C. Water waves D. Complex waves