

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

Sr	Questions	Answers Choice
1	Radium was discovered by:	A. Becquerel B. Marie curie C. Pierre curie D. Rutherford E. Both (B) and (C)
2	A charge of 0.1 c accelerated through a potential difference of 1000V acquires kinetic energy	A. 200 J B. 100 J C. 1000 J D. 400 J
3	The earth's potential is taken as	A. Negative B. Positive C. Zero D. Infinite
4	Most ideal gas at room temperature is.	A. CO ₂ B. SO ₂ C. NH ₃ D. H ₂
5	Longitudinal waves are also called:	A. Congressional waves B. Transverse waves C. Radio waves D. None of them
6	Conventionally the angular velocity is directed at an angle of	A. 90° to the axis of rotation B. 30° to the axis of rotation C. 0° to the axis of rotation D. None of the above
7	The nucleus/nuclei of hydrogen is/are:	A. Proton B. Deuteron C. Triton D. All of these E. None of these
8	Question Image	A. $5\mu\text{F}$ B. $10\mu\text{F}$ C. $3\mu\text{F}$ D. $6\mu\text{F}$
9	You have 20 inductors available each of 15H. You need an inductor of 1H in a circuit. You achieve it by combination.	A. 15 inductor in parallel B. 20 inductor in series C. 20 inductor in parallel D. 15 inductor in series
10	In the text book, the transistor amplifier circuit is a:	A. Common emitter circuit B. Common collector circuit C. Common base circuit D. Any of these E. None of these
11	A point on the rim of a wheel moves 0.2 m when the wheel turns through an angle of 14.3	A. 0.05 m B. 0.08 cm

	degrees. The radius of the wheel is	C. 0.8 m D. 0.008 m
12	The third band of the colour code:	A. Gives the number of zeroes B. Is decimal multiplier C. Gives the resistance tolerance D. Gives the third digit E. Both (A) and (B)
13	Sound waves in air always	A. Longitudinal B. Transverse C. Stationary D. Electromagnetic
14	Where the streamlines are very far apart from each other, the pressure will be	A. low B. zero C. high D. all of them
15	An airplane is flying horizontally with a velocity of 600 km/h and at a height of 1960 m. When it is vertically above a point A on the ground, a bomb is released from it. The bomb strikes the ground, at point B. The distance AB is	A. 1200 m B. 0.33 km C. 3.33 km D. 33 km
16	The process in which energy is dissipated from the oscillating system is known as	A. resonance B. interference C. diffraction D. damping
17	During the free fall motion of an object, when its weight becomes equal to the drag force, then it will move with	A. maximum speed B. zero speed C. maximum speed D. none of them
18	Which of the following changes at an antinode in a stationary wave?	A. Density only B. Pressure only C. Both pressure and density D. Neither pressure nor density
19	When two waves with same frequency and constant phase difference phase difference interfere	A. There is a gain of energy B. There is a loss of energy C. The energy is redistributed and the distribution changes with time D. The energy is redistributed and the distribution remains constant with time
20	A ball is dropped downwards After 1 second another ball is dropped downwards from the same point. What is the distance between them after 3 seconds	A. 25 m B. 20 m C. 50 m D. 9.8 m