

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	A current of 1.6 A is passed through a solution of CuSO_4 . How many Cu^{2+} ions are liberated in one minute?	<p>A. 3×10^{20}</p> <p>B. 3×10^{10}</p> <p>C. 6×10^{20}</p> <p>D. 6×10^{10}</p>
2	An alpha particle has a charge of	<p>A. $+2e$</p> <p>B. $-2e$</p> <p>C. $-e$</p> <p>D. $+3e$</p>
3	Hydrogen and helium of same volume V at same temperature T and same pressure P are mixed to have same volume V. The resulting pressure of the mixtures will be	<p>A. $R/2$</p> <p>B. P</p> <p>C. $2P$</p> <p>D. Depending on the relative mass of the gases</p>
4	Which of the following is not an example of adiabatic process	<p>A. the rapid escape of air from a burst type</p> <p>B. the rapid expansion and compression of air through which a sound wave is passing</p> <p>C. cloud formation in the atmosphere</p> <p>D. none of them</p>
5	According to the electromagnetic wave theory of light, increasing the intensity of incident light should increase the	<p>A. number of photoelectrons</p> <p>B. size of the photoelectrons</p> <p>C. charge on photoelectrons</p> <p>D. K.E of photoelectrons</p>
6	A ball is thrown upwards with a velocity of 100 m/s. It will reach the ground after	<p>A. 10 s</p> <p>B. 20 s</p> <p>C. 5 s</p> <p>D. 40 s</p>
7	The information from far side of the universe are gathered by	<p>A. Radio telescope</p> <p>B. Microscope</p> <p>C. Telescope</p> <p>D. Spectro scope</p>
8	The resistance of 20 cm long wire is 10Ω . When the length is changed to 40 cm. The new resistance is	<p>A. 10Ω</p> <p>B. 20Ω</p> <p>C. 30Ω</p> <p>D. 40Ω</p>
9	Rate of diffusion is	<p>A. Faster in solids than in liquids and gases</p> <p>B. Faster in liquids than in solids and gases</p> <p>C. Equal to solids, liquids and gases</p> <p>D. Faster in gases than in liquids and solids</p>
10	In circuit X, $L = 100 \text{ mH}$ and $C = 100 \text{ meo F}$ are attached in series. In circuit Y, $L = 100 \text{ mH}$ and $C = 10 \text{ meo G}$ are attached in parallel. The resonating frequency f_x and f_y are related	<p>A. $f_x = f_y$</p> <p>B. $f_x = 10 f_y$</p> <p>C. $f_x = 0.01 f_y$</p>

		D. Cannot be determined
11	When the speed of a body in a fluid increases then the drag force	A. decreases B. becomes zero C. increases D. non of them
12	A grating with high resolving power can distinguish _____ difference in wavelengths :	A. Larger B. Zero C. None of these D. Smaller
13	One newton is a force that produces an acceleration of 0.5 m/sec^2 in a body of mass:	A. 2 kg B. 3 kg C. 4 kg D. 8 kg
14	The current sensitivity of the galvanometer is	A. C/BAN B. BAN/C C. CAN/B D. CBN/A
15	A projectile on its path gets divided into two pieces at its highest point. Which is true?	A. Momentum increases B. Momentum decreases C. Kinetic energy increases D. Kinetic energy decreases
16	The motion of molecules in gases is:	A. Orderly B. Random C. Circular D. All of these
17	The direction of velocity is along the direction of	A. distance B. displacement C. acceleration D. all of them
18	The SI unit of strain is	A. N B. Dynes C. Pascal D. Dimensionless
19	Fire fighters have a jet attached to the head of their water pipes in order to head of their water pipes in order to	A. Increase the mass of water flowing per second B. Avoid wastage of water C. Increase the velocity of water flowing out D. Increase the volume of water flowing per second
20	Watt x second is unit of:	A. Force B. Work C. Power D. None of these