

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Essential characteristic of equilibrium is	A. Momentum equal to zero B. Acceleration equal to zero C. Kinetic energy equal to zero D. Velocity equal to zero
2	Radioactivity	A. is exhibited more by semiconductors in general B. in exhibited more by the element when they are coupled C. with other radioactive elements by a covalent bond D. is an atomic property of radioactive elements
3	The conductivity of a superconductor is	A. Infinite B. Very large C. Very small D. Zero
4	The magnetic field outside the solenoid due to current is	A. strong B. zero C. weak D. uniform
5	A piece of wire along which charges are made to accelerate is known as	A. transmitting antenna B. receiving antenna C. modulator D. nor of these
6	Bernoulli's equation is important in the field of	A. Electrical circuit B. Magnetism C. Photoelectric effect D. Flow of fluids
7	Amplitude is the displacement of the vibrating body from:	A. One extreme position to the other extreme position B. Mean position any one extreme position C. Both A and B are correct D. None of these
8	A train of 150 m length is going towards north direction at a speed of 10 ms ⁻¹ . A parrot files at a speed of 5 ms ⁻¹ towards south direction parallel to the railway track. The time taken by the parrot to cross the train is equal to	A. 12 s B. 8 s C. 15 s D. 10 s
9	For a moving body, at any instant of time	A. If the body is not moving the acceleration is necessarily zero B. If the body is slowing, the retardation is negative C. If the body is slowing, the distance is negative D. If displacement, velocity and acceleration at that instant are known, we can find the displacement at any given time in future
10	The product of induced current and the resistance of the wire through which the current is passing is called:	A. Electromagnetic induction B. induced emf C. Induced current D. Self induced E. None of these
11	The angular speed of a particle moving along a circular path is 5 Pie rad sec ⁻¹ , Its period of motion is:	A. 2.5 sec B. 0.06 sec C. 15.7 sec D. 0.4 sec
12	The distance covered by a body in unit time is called.	A. Displacement B. speed C. Velocity D. Both B and C
		A. 273

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13	The temperature at which the speed of sound becomes double as was at 27°C is	size: small;">"C B. 0 "C C. 927 "C D. 1027 "C font-size: small;">"C
14	A spring of constant $k = 0.4 \text{ N m}^{-1}$ is to be extended through 10 cm at a place where $g = 10 \text{ m}$ sec ⁻² . The mass to be suspended should be:	A. 4 gms B. 0.4 gm C. 40 gms D. None of these
15	In magnet-coil experiment, emf can be produced by:	A. Keeping the coil stationary and moving the magnet B. Keeping the magnet stationary and moving the coil C. Relative motion of the loop and magnet D. Any one of above E. All above
16	Gamma rays consist of steam of	A. electron B. proton C. photons D. all of these
17	The induced current in a conductor depends upon:	A. Resistance of the loop B. Speed with which the conductor moves C. Any of these D. Both A and B E. None of these
18	The number of vibrating body at any instant from its equilibrium position is called	A. displacement B. frequency C. amplitude D. time period
19	The branch of physics which deals with the properties of fundamental particles is called:	A. High energy physics B. Molecular physics C. Astrophysics D. Space physics
20	A 220 V, 50 Hz. A.C. source is connected to an inductance of 0.2 H and a resistance of 20 ohm in series. What is the current in the circuit?	A. 10 A B. 5 A C. 33.3 A D. 3.33 A