

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Referring to above figure, due to change in current in the coil P, the change in magnetic flux:	<p>A. Is associated with coil P B. Is associated with coil S C. Causes an induced current in coil S D. All of these E. None of these</p>
2	When some compass needles are placed on a card board along a circle with the center at the wire, they will	<p>A. Point the direction of N-S B. Set themselves tangential to the circle C. Point in the direction of E-W D. None of these E. Point in direction of S-E</p>
3	The principle of superposition states that	<p>A. The total displacement due to several waves is the sum of the displacement due to those waves acting individually B. Two stationary waves superimpose to give two progressive waves C. A diffraction pattern consists of many interference patterns superimposed on one another D. Two progressive waves superimpose to give a stationary wave</p>
4	The blood pressure of a person	<p>A. decrease with age B. increase with age C. has no effect with age D. none of them</p>
5	If an iron ball and a wooden ball of the same radius was released from a height 'h' in vacuum, then time taken by both of them to reach ground will be	<p>A. Unequal B. Exactly equal C. Roughly equal D. Zero</p>
6	The SI unit of spring constant is identical with that of	<p>A. Force B. Surface tension C. Pressure D. Loudness</p>
7	Glycerin has viscosity _____ the viscosity of water:	<p>A. More than B. Equal to C. Less than D. None of these</p>
8	Radium was discovered by:	<p>A. Becquerel B. Marie curie C. Pierre curie D. Rutherford E. Both (B) and (C)</p>
9	During the positive half-cycle in the half-wave rectification, the diode	<p>A. does not conduct B. conducts C. either of these</p>

		D. neither of these
10	When a body is vibrating, the displacement from mean position:	A. Increases with time B. Decreases with time C. Changes with time D. None of these
11	High energy physics is branch of physics, which deals with:	A. Stars and galaxies B. Sub-atomic particles C. Light and sound D. Molecules
12	The modulus of elasticity can be written as	A. stress x strain B. strain/stress C. $1/2 \times \text{stress} \times \text{strain}$ D. stress/strain
13	The power factor of resonant series circuit is	A. 1 B. 0 C. -1 D. 0.5
14	A mass of 5kg moves with an acceleration of 10 m s^{-2} force applied is	A. 10 N B. 50 N C. 2 N D. 20 N
15	A capacitor acts as an infinite resistance for	A. AC B. DC C. Both AC and DC D. Neither AC nor DC
16	The isotope/s of hydrogen is /are:	A. Protium B. Deuterium C. Tritium D. Both (A) and (B) E. All of these
17	The unit of spring constant is	A. J-sec B. Metre C. Nm^{-1} D. None of these
18	When a bicycle is in motion but not pedaled, the force of friction exerted by the ground on the two wheels is such that it acts	A. In the backward direction on the front wheel and in the forward direction on the rear wheel B. In the forwards directions on the front wheel and in the backward direction on the rear wheel C. In the forward direction on both the wheels D. In the backward direction on both the wheels
19	The string of a simple pendulum should be:	A. Heavy B. Extensible C. In-extensible D. None of these
20	When a charged particle passes through matter, it produces ionization, this effect is used in	A. fission reaction B. reactor C. radiation detector D. fusion reaction