

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Split rings act as	A. Vibrator B. Resistor C. Motor D. Commulator
2	Which of the following is the longitudinal waves?	A. Sound waves B. Waves on plucked string C. Water waves D. Light waves
3	During the positive half-cycle in the half-wave rectification, the diode	A. does not conduct B. conducts C. either of these D. neither of these
4	The SI unit of magnetic flux is	A. NmA^{-2} B. NmA^{-1} C. NA^{-1} D. Nm^2A^{-1}
5	We can express the work in term of	A. directly measurable variables B. indirectly measurable variables C. either of them D. both of them
6	The combined effect of resistance and reactance in a.c. circuit is called	A. conductance B. resistance C. impedance D. choke
7	The heat required to raise the temperature of one mole of the substance through 1 K is called	A. heat capacity B. specific heat capacity C. molar specific heat D. all of them
8	A certain charge liberates 0.8 g of oxygen. The same charge will liberate. how many g of silver?	A. 108 g B. 10.8 g C. 0.8 g D. 108/0.8 g
9	Sadi carnot described an ideal heat engine in	A. 1820 B. 1840 C. 1860 D. 1880
10	Heavy water is made of one oxygen atom and two atoms of:	A. Protium B. Deuterium C. Tritium D. Any of these E. None of these
11	A car is moves around a circular track of radius 0.3 m at the rate of 120 rev/min. The speed v of the car is:	A. 38 m/sec B. 3.8 m/sec C. 0.6 m/sec D. None of these
12	Which of the following friction is self-adjusting force.	A. Static B. Dynamic C. Limiting D. Sliding
13	Since the absolute scale is independent of the property of the working substance, hence, can be applied at	A. very high temperature B. very low temperature C. any one of them D. none of them
14	The basic circuit element in a d.c. circuit is a/an	A. Inductor B. Resistor C. Capacitor D. Battery
15	When the droplet moves with terminal velocity in a fluid, the net force acting on the droplet is:	A. $F_D - mg$ B. Zero C. $mg - F_D$ D. $F_D + mg$

		D. None of these
16	The law of conservation of energy gives us	A. equation of continuity B. Bernoulli's theorem C. both of them D. none of them
17	In L.C.R series A.C. circuit, the phase angle between current and voltage is	A. Any angle between 0 and $\frac{\pi}{2}$ B. $\frac{\pi}{2}$ C. π D. Any angle between 0 and π
18	Which of the following statements for an object in equilibrium is not true?	A. The object must be at rest B. The object can be at rest C. The object is moving at constant speed D. The acceleration of the object is zero
19	A body is moving with constant velocity of 10 m/sec in the north east direction. Then its acceleration will be:	A. 10 m/sec ² B. 20 m/sec ² C. 30 m/sec ² D. Zero
20	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