

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The magnitude of induced emf depends upon the:	A. Rate of decrease of magnetic field B. Rate of change of magnetic field C. Rate of increase of magnetic flux D. Constancy of magnetic field E. None of these
2	The field in which work done is moving body between two points depends upon the path followed is called:	A. Conservative filed B. Non-conservative field C. Electric field D. None of these
3	The locus of all points in a medium having same phase of vibration is called	A. Crest B. Trough C. Wavelength D. Wave-front
4	A wire is bent into a ring of radius R is given a charge q. The magnitude of the electrical field at the centre of the ring is	A. Two B. 1/2 C. Zero D. 3/2
5	The concept of entropy was introduced into the study of thermodynamics in	A. 1856 B. 1865 C. 1656 D. 1685
6	The work done by the system on its environment is considered as	A. positive B. negative C. zero D. any one of them
7	The inkjet printer ejects a thin stream of:	A. Water<o:p></o:p> B. Oil<o:p></o:p> C. Ink<o:p></o:p> D. Any of above<0:p> E. Any of above<0:p> E. None of these<0:p>
8	If the number of turns of a solenoid (carrying a steady current I) is doubled without changing the length of a solenoid, then magnetic field:	A. Becomes Half B. Becomes double C. Is not affected D. Becomes one fourth E. None of these
9	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
10	The excess (equal in number) of electrons that must be placed on each of two small spheres spaced 3 cm apart, with force of repulsion between the spheres to be 10^{-19} N, is	A. 25 B. 225 C. 625 D. 1250
11	A full-scale deflection is obtained in a galvanometer with a current of few	A. ampere B. volts

	-	C. milinampere D. ohm
12	Converse of pair production is known as	A. Compton effect B. annihilation of matter C. photoelectric effect D. none of these
13	The entire wave form of sinusoidal voltage is actually a set of all the:	A. Positive maximum value + V _o and negative maximum value -V _{oo/sub> B. Posiotive maximum value +V_{ooologoologoologoologoologoologoologoo}}
14	The amplifier which us used to perform mathematical operations electronically is known as	A. calculator B. OP-AMP C. computer D. any one of them
15	The efficiency of petrol engine is usually not more than 25% to 30% because of	A. friction B. heat losses C. both of them D. none of them
16	Faraday's law of electromagnetic induction has been used in the construction of:	A. Galvanometer B. Voltmeter C. Electric motor D. Electric genrator E. Commutator
17	Velocity of sound in a diatomic as is 300 m/sec. what is its rms velocity?	A. 400 m/sec B. 40 m/sec C. 430 m/sec D. 300 m/sec
18	The equation of continuity is	A. A ₁ A _{2 = V} ₁ V ₂ B. A _{1/} _{V_{V_{>2} 1 =}A_{2/}V_{2/sub>A_{1 =}A_{2/}V_{2/sub>A_{1 =}V₁A_{1 =}A_{1 =}A_{1 =}A_{1 =}A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A_{2/sub>A}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}
19	When quarter of a circle is completed, the phase of vibration is:	A. 90