Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	An electric field is generated along the wire when:	A. Its resistance is very high<o:p></o:p> B. A constant potential is maintained across the wire<o:p></o:p> C. Net current through the wire is zero<o:p></o:p> D. A constant potential difference is maintained across the wire<o:p></o:p> E. Either (A) or (D)<o:p></o:p>
2	If the length of a simple pendulum is 0.25 m its time period would be	A. 1.0 s B. 2.0 s C. 3.0 s D. 4.0 s
3	The motion in a plane is the motion in	A. one dimension B. two dimension C. three dimension D. four dimension
4	Due to relative motion of observer and the frame of reference of events, time always:	A. Dilates itself B. Contracts itself C. Stretches itself D. Both (A) and (C) E. None of these
5	Work done along a closed path in a gravitational force is:	A. maximum B. Minimum C. Zero D. Unity
6	At O° K which of the following properties of a gas will be zero?	A. Kinetic energy B. Potential energy C. Vibrational energy D. Density
7	Work has the dimension as that of:	A. Torque B. Angular momentum C. Linear momentum D. Power
8	Which of the following is most suitable as the core of transformer	A. Soft iron B. Alinco C. Steel D. None of these
9	A thermistor with negative temperature co-efficient is placed in a furnace. When temperature of furnace increases the resistance?	A. Decrease B. Remain unchanged C. Increase D. None of above
10	The power dissipation in a pure inductive or capacitance circuit is	A. maximum B. positive C. zero D. none
		A. <p class="MsoNormal" style="text-

11	the current is pass through the straight wire. The magnetic field established around it has its lines of force:	align:justify">Circular and endless<o:p></o:p> B. Oval in shape and endless<o:p></o:p> C. Straight<o:p></o:p> D. Parabolic<o:p></o:p> E. All are true
12	The straight current carrying conductor experiences maximum force in a uniform magnetic field when it is placed	A. parallel to the field B. Perpendicular to the field C. At an angle of 45 to the field D. None of the above
13	The energy of photon 'E' is proported to	A. The magnetic field H B. The electric field E C. Both the electric and magnetic field H and E D. Frequency
14	Alternating current is produced by a voltage source which polarity:	A. Remains the same B. Reverse after period T C. Keeps on reversing with time D. Reverse after every time interval T/2 E. Both (C) and (D)
15	Bernoulli's equation is based upon law of conversation	A. Mass B. Momentum C. Energy D. None of these
16	Which of the following phenomenon proves the particle nature of light	A. interference B. diffraction C. photoelectric effect D. none of these
17	A digital system deals with quantities or variables which have	A. only one state B. only two discrete states C. three discrete states D. four discrete states
18	The string of a simple pendulum should be:	A. Heavy B. Extensible C. In-extensible D. None of these
19	Work done is lowering the bucket into the well is:	A. Zero B. Positive C. Negative D. None of these
20	Angular velocity is a:	A. Scalar quantity B. Vector quantity C. Complex quantity D. None of these