Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	In a metal, the valence electrons are:	A. Attached to individual atoms B. Not attached to individual atoms C. Free to move within the metal D. Both A and B E. Both A and C
2	Absolute temperature can be calculated by	A. Means squares velocity B. Motion of the molecule C. Both A and B D. None of these
3	Root out the conventional source of energy:	A. Energy from biomass B. hydroelectric energy C. Geothermal energy D. None of these
4	The S.I unit of frequency is	A. Vibrations s^{-2} B. Ms^{-1} C. Hertz D. s^{-1}
5	Bernoulli's equation is the fundamental equation in fluid dynamics, which relates pressure to fluid	A. speed B. height C. none of them D. both of them
6	Units of impedance are	A. Henry B. Ohms C. moh D. Watt
7	_____ plays the same role during angular motion as played by the mass in linear motion	A. Torque B. Angular Momentum C. Moment of a force D. Moment of inertia
8	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
9	An electron of charge e coulomb passes through a potential difference of V volts its energy in joules will be	A. V/e B. eV C. e/V D. V
10	If a gymnast is sitting on a rotating stool with his arms outstretched, brings his arms towards the chest, then its angular velocity will:	A. Increase B. Decrease C. Remains constant D. None of these
11	The study of fluid in motion basically involves law of conservation of:	A. Mass B. Energy C. Change D. Both A and C E. Both A and B
12	In an A.C. circuit, a resistance of R ohm is connected in series with an inductance L. If phase angle between voltage and current be 45°. the value of inductive reactance will be	A. R/4 B. R/2 C. R D. Cannot be found with the given data
13	If current through conductor is 1 A and length of conductor is 1m placed at right angle to the magnetic field, then the strength of magnetic field is	A. $F = B^2$ B. $F = 0$ C. $F = B$ D. $F = B/2$
14	Maric Curie and Pieree Curie discovered two new radioactive elements, which are called	A. polonium uranium B. uranium and radium C. polonium and radium D. none of these
15	The practical application of the phenomenon of Mutual induction is	A. Transformers B. Generator C. Motor

		D. All of these
16	Xerography means:	A. <p class="MsoNormal">Dry writing<o:p></o:p></p> B. Wet writing<p class="MsoNormal"><o:p></o:p></p> C. <p class="MsoNormal">Poor writing<o:p></o:p></p> D. <p class="MsoNormal">Excellent writing<o:p></o:p></p> E. <p class="MsoNormal">Both (A) and (B)<o:p></o:p></p>
17	Three resistance 500,500 and 50 ohms are connected in series across 555 volts mains. The current flowing through them will be	A. 0.52 A B. 1 mA C. 0.7 mA D. 1.4 A
18	Work done along a closed path in a gravitational field is:	A. Maximum B. Minimum C. Zero D. Unity
19	When two objects are rubbed together, their internal energy	A. remains same B. decreases C. remains the same then decreases D. increases
20	Huygen principle is used to determine	A. Speed of light B. Location of wavefront C. About polarized and unpolarized light D. None of them