Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Which of the following diode is used to derive the current in external circuit when light is incident in the circuit	A. photo diode B. light emitting diode C. photo voltaic cell D. none of these
2	Binding energy per nucleus is	A. greater for heavy nucleus B. least for heavy nucleus C. greatest for light nuclei D. decreases for medium weight niclei
3	Fog droplets are suspended in air when their weight is balanced by:	A. Force of gravity B. Upward trust due to air C. Surface tension D. None of these
4	The smooth or steady streamline flow is known as	A. laminar flow B. turbulent flow C. both of them D. none of them
5	When temperature increase, the frequency of a tuning fork	A. Increases B. Decreases C. Remains same D. Increase or decreases depending on the material
6	The mass 'm' of a body moving at 0.8 c (whose rest mass is mo) becomes	A. 2 mo B. 1.67 mo C. 0.67 mo D. 2.67 mo
7	Cosine of an angle is positive in:	A. 2nd quadrant B. 3rd quadrant C. 4th quadrant D. All of these
8	A photon is considered to have	A. Momentum B. Energy C. Wavelength D. All of the above
9	The range of particle depends upon the factor	A. charge, mass and energy of particle B. density of medium C. ionization potential of the atoms D. all the above
10	First law of thermodynamic is special case of	A. Law of conservation of energy B. Charle's law C. Law of conservation of mass D. Boyle's law
11	If the time period a simple pendulum is 2 s, its frequency would be	A. 2 Hz B. 1.5 Hz C. 1.0 Hz D. 0.5 Hz
12	The work done in moving a body between two points in a conservation field is independent of the:	A. Direction B. Force applied C. Path followed by the body D. Power
13	Coulomb multiplied by volt by volt gives the unit called:	A. farad B. Ohm C. Second D. joule E. Watt
		A. 1600°C B. 900<span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-

14	When platinum wire is heated, it appears cherry red at	size: small;">°C C. 1100°C D. 1300°C
15	γ-rays are	A. electrostatic waves B. electromagnetic waves C. heavy particles D. longitudinal waves
16	The efficiency of diesel engine is	A. 25% B. 25 - 30% C. 35% D. 35 - 40%
17	The conduction band in a solid	A. may be empty B. cannot be empty C. should be filed D. all of them
18	Laplace formula is derived from	A. Isothermal change B. Adiabatic change C. Isobaric change D. None of these
19	For a body executing S. H. M, its	A. momentum remains constant B. potential energy remains constant C. kinetic energy remains constant D. total energy remains constant
20	The number of all the protons and neutrons in a nucleus is known as	A. atomic number B. mass number C. charge number D. none of these