Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Fraction of the decaying atoms per unit time is called	A. decay atom B. decay element C. decay constant D. decay
2	An L-R circuit has R = 10 Ω and L = 2 H. If 120 V, 60 Hz A.C. voltage is applied, then current in the circuit will be	A. 0.32 A B. 0.16 A C. 0.48 A D. 0.80 A
3	The most suitable material for permanent magnet is	A. cobalt B. iron C. steel D. alaminium
4	The analysis of fluid motion becomes simplified by using	A. law of conservation B. law of conservation of energy C. both of them D. none of them
5	For a given angle of projection, if the time of flight of a projectile is doubled, the horizontal range will increases to	A. Four times B. Thrice C. Once D. Twice
6	Graph of Black body radiation is example of	A. Band spectra B. Continuo's spectra C. Line spectra D. All
7	In the region surrounding a current carrying wire:	A. A magnetic field is setup <o:p></o:p> B. The lines of force are elliptical<o:p></o:p> C. Direction of lines of forces depends upon direction of current<o:p></o:p> D. Both (A) and (C)<o:p></o:p> E. All of these
8	The tidal energy is due to gravitational pull of :	A. sun B. moon C. Mars D. None of these
9	Silicon can be obtained from	A. Lead B. Uranium C. An isotope of oxygen D. Sand
10	Wave nature of particle was proposed by	A. Einstein B. Plank C. De-Brogile D. Max well

11	Which one of the following is not a vector quantity?	A. Kinetic energy B. Acceleration C. Momentum D. Force
12	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
13	The powers of tow electric bulbs are 100 W and 200 W. Both of them are joined with 220 V mains. The ratio of resistances of their filaments will be	A. 1 : 2 B. 2 : 1 C. 1 : 4 D. 4 : 1
14	When a body moves with a constant speed in a circle:	A. No work is done on it B. No acceleration is produced in the body C. Velocity remains constant D. None of these
15	An irreversible heat flow from a hot to cold substances of a system, causes the disorder to	A. decrease B. remains the same C. increase D. any one of them
16	The chemical properties of all the isotopes of an elements are	A. same B. different C. slightly different D. none of these
17	When a dielectric material is introduced between the plates of a charged condenser the electric field between the plates	A. Decreases B. Increases C. No change D. May increase or decresase
18	Monochromatic light means wave of	A. Same frequency B. Same colour C. Same Wavelength D. All of them
19	The ratio of energy E to the corresponding frequency (f) of the radiation (emitted or absorbed) is called:	A. Wien's constant B. Stefen's constnat C. Planck's constant D. Boltzmann's constant E. None of these
20	According to the equation of continuity, when water falls from the tap, it's speed increases and its cross-sectional area	A. decreases B. increases C. becomes zero D. none of them