Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	A snooker ball moving with velocity V collides head on with another snooker ball of same mass at rest. If the collision is elastic, the velocity of second snooker ball is	A. Zero B. Infinity C. V D. 2 V
2	When two protons are brought closer potential energy of both of them:	A. Increases B. Decreases C. Remains same D. None of these
3	In case of point source of light, shape of wavefront is	A. Spherical B. Cylindrical C. Plane D. None of above
4	The space around the earth within it exerts a force of attraction on other bodies of known as:	A. Nuclear field B. Conservative field C. Electric field D. Gravitational field
5	A flowing liquid possess	A. K.E B. P.E C. Pressure Energy D. All
6	The lines of a difference grating have a spacing of 1.2 m. When a beam of monochromatic light is incident normally on the grating. The first order maximum monochromatic light is.	A. 1200 nano meters B. 450 meters C. 600 nano meters D. 700 nano meters
7	The motion in a plane is the motion in	A. one dimension B. two dimension C. three dimension D. four dimension
8	Which of the following theory completely explain the three types of materials	A. Bohr model of electron distribution B. Rutherford atomic model C. Pauli's exclusion principle D. energy band theory
9	What is the coefficient of mutual inductance, when the magnetic flux changes by 2×10^{-2}Wb, and change in current is 0.01 A?	A. 2 H B. 3 H C. 1/2 H D. Zero
10	The density of water is 10^3kg/m^3. The water pressure on a submarine is 2.0×10^7N/m^2. The depth of the submarine below the surface of the water, in maters, is approximately	A. 200 m B. 11000 m C. 2000 m D. 8000 m
11	Op-amp has been discussed as comparator of:	A. Distances B. Voltages C. Velocities D. Magnetic fields E. Both (A) and (C)
12	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
13	The waves which propagate out in space due to oscillation of electric and magnetic fields are known as	A. e.m. waves B. mechanical waves C. sound waves D. water waves
14	A laborer carrying a load on his head moves from the rest on a horizontal road to another point where he comes to rest. He has done:	A. Minimum Work B. Maximum Work C. Zero Work D. Negative Work
15	The isotope/s of hydrogen is /are:	A. Protium B. Deuterium C. Tritium

		D. Both (A) and (B) E. All of these
16	The restoring force is _____ amd opposite to the applied force within _____:	A. Equal, elastic limit B. Different, the walls of the laboratory C. Different, elastic limit D. None of these
17	The damping depends upon the	A. amplitude B. sharpness C. both of them D. none of them
18	The heat required to raise the temperature of one mole of the substance through 1 K is called	A. heat capacity B. specific heat capacity C. molar specific heat D. all of them
19	The bridge circuit of full wave rectification uses	A. one diode B. two diode C. three diode D. four diode
20	A pair of quark and antiquark makes a:	A. Meson B. Baryon C. Proton D. Neutron E. None of these