

## Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	When a force of 0.5 N displaces a body through a distance of 2m in the direction of force, the work done is:	A. 2 J B. 0.25 J C. 1 J D. 0.5 J
2	When a stress changes the shape, it is called the	A. compressional stress B. tensile stress C. shear stress D. any one of them
3	At a given instant, a photon moves in +x direction in a region where there magnetic field in -z direction. The magnetic force on the proton will be the:	Ay direction B. +y direction C. +z direction Dz direction E. None of these
4	The unit of work in CGS system is	A. Joule B. Erg C. Dyne D. Watt
5	The half lie of radium-226 is	A. 238 years B. 4.5 x 10 <sup>9</sup> days C. 1620 years D. 332 years
6	The materials in which valence electrons are bound very tightly to their atoms and are not free, are known as	A. conductors B. insulators C. semi-conductors D. all of them
7	Fidelity refers to	A. Reproduction of original sound B. Reproduction of original image C. Reproduction of music D. Reproduction of a CD from original copy
8	Frequency of red colour as compared to that of violet colour is	A. Equal B. Smaller C. Greater D. None of these
9	Centripetal force for electron is given by	A. mv <sup>2</sup> / r B. mv / r <sup>2</sup> C. mv <sup>2</sup> / r D. mr <sup>2</sup> / v
10	The third band of the colour code:	A. Gives the number of zeroes B. Is decimal multiplier C. Gives the resistance tolerance D. Gives the third digit E. Both (A) and (B)
11	The number of "Earth stations" which transmit signals to satellites and receive signals from them are:	A. 3 B. 24 C. 126 D. 200
12	dimensions are the same for:	A. Work and energy B. Force and weight C. None of these D. Both a and b
13	Such oscillations in which the amplitude decreases steadily with time, are called	A. resonance B. force oscillations C. large oscillations D. damped oscillations
14	The direction of vector in space is specified by:	A. One angle B. Two angles C. Three angles D. None of these
		A. brittle substances

15	Glass and high carbon steel are the examples of	B. ductile substances C. plastic substances D. elastic substances
16	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
17	Ethanol (alcohol) is a type of:	A. Electric fuel B. Bio fuel C. Nuclear fuel D. None of these
18	The velocity gained by the fluid in falling through the distance $(h_1 - h_2)$ under the action of gravity is equal to the speed of the	A. orifices B. efflux C. fluid D. none of them
19	The example of reversible process is	A. an explosion B. changes occur suddenly C. slow compression of a gas D. all of them
20	If the two charges in Coulomb's law have double distance between them, then electric force	A. Becomes two-fold B. Becomes four-fold C. Remains the same D. None of these