

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Work done is maximum when angle between force and displacement is:	A. 0 ° B. 90 ° D. None of these
2	Which one of the following has larger value of relative permittivity E_{r} at room temperature?	A. Vaccum B. Air C. Glass D. Water
3	An induced current can be produced by:	A. Constant magnetic field B. Changing magnetic field C. Varying magnetic field D. Constant electric field E.

4	The wave nature of light was proposed by	A. Newton B. Thomas Young C. Huygen D. None of these
5	The open loop gain of OP-AMP is of the order of	A. 10 ² B. 10 ³ C. 10 ⁴ D. 10 ⁵
6	The force of repulsion between two point charges is F, when these are at a distance 0.1 m apart. Now the point charges are replaced by sphere of radii 5 cm each having the same charge as that of the respective point charges. The distance between their centre is again kept 0.1 m; then the force of repulsion will	A. Increase B. Decrease C. Remain F D. Become 10F/9
7	The change of order of vectors in a dot product of two vectors:	A. Changes its value B. Doesn't change it's value C. Changes the direction product quantity D. None of these
8	A body with frequency of would complete one vibration in:	A. f seconds B. 1/f seconds C. 1 second D. f ² second
9	The mechanics, which deals with the objects moving with velocities approaching that of light is called	A. Relativistic mechanics B. Wave mechanics C. Quantum mechanics D. Statics
10	Neon gas have three isotopes whose atomic numbers are	A. 20, 24, 23 B. 20, 21, 22 C. 20, 19, 21 D. none of these
11	Two samples A and B of a gas initially of the same temperature and pressure are compressed from a volume V to a volume V/2 such that A is compressed isothermally and B adiabatically. The final pressure	A. A greater than than of B B. A is equal to that of B C. A is less than that of B D. A is twice the pressure of B
12	One newton is a force that produces an acceleration of 0.5 m/sec ² in a body of mass:	A. 2 kg B. 3 kg C. 4 kg D. 8 kg
13	The missing mass which is converted to energy in the formation of nucleus, is called	A. packing fraction B. mass defect C. binding energy D. none of these
14	Referring to above figure, due to change in current in the coil P, the change in magnetic flux	A. Is associated with coil P B. Is associated with coil S C. Causes and induced current in coil S D. All of these E. None of these
15	A non-inertial frame of reference is that frame of reference in which	A. $a = 0$ B. $a > 0 or a < 0C. v = 0D. none of them$
16	Resistor is a device which convert electric energy to	A. Heat energy B. Chemical energy C. Elastic energy D. All of the above
17	The restoring force is always directed towards:	A. Rest position B. Equilibrium position C. Mean position D. All of them
18	Nucleus of a hydrogen atom may contain:	A. One neutron only B. Two protons and one neutron C. Two protons and two neutrons D. Aany of above E. One proton only
		A. Intensity of electric field<o:p></o:p> B. Area of

the surface < 0:p>
C. 0. 0. 0. Roman" " serif" > 0. A. loop
B. circle
C. bar magnet
D. none of these