

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The graph showing the variation of displacement with time is a:	A. Sine curve B. Straight line C. Parabola D. None of these
2	If water rises 4 cm in a long, thin tube because of capillary action, then, under corresponding conditions of use, the rise (in the tube) of a liquid whose density is 2 g/cm^2 will be	A. 1 cm B. 2 cm C. 8 cm D. None
3	When the pn-junction is forward biased. the current flows through it is of the order of	A. mili-amperes B. amperes C. nano-amperes D. micro-amperes
4	Pressure exerted by a gas on the walls of its container is due to	A. adhesion between the gas molecules and the container B. cohesion between the gas molecules and the container C. collision between the gas molecules and the container D. surface tension of the gas
5	Surface tension of water is reduced by adding	A. Detergents B. Camphor C. Plastic D. Both A and B
6	Smaller the damping, the resonance will be	A. more flat B. more sharp C. both of them D. none of them
7	In half wave rectification	A. both halves of the input voltage is used B. only one half of the input voltage is used C. either of these D. none of these
8	A voltmeter is used to measure the	A. potential difference B. current C. temperature D. resistance
9	When a platinum wire is heated, it appears dull red at about	A. 500°C B. 900°C C. 1100°C D. 1300°C
10	The rear wheels of an automobile are rotating with an angular velocity of 14 rev/sec which is reduced to 38 rad/sec in 5 second when brakes are applied. Its angular acceleration is:	A. 5 rad/sec^2 B. -10 rev/sec^2 C. -10 rad/sec^2 D. -5 rev/sec^2
11	In Bernoulli's theorem the relation between velocity and pressure is	A. Inverse B. Direct C. None of the above D. Both a and b
12	Frequency of red color as compared to that of violet color is:	A. Equal B. Smaller C. Greater D. None of these
13	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
14	The existence of position was predicted by Dirace in	A. 1920 B. 1925 C. 1930 D. 1928

15	An induced current can be produced by:	A. Constant magnetic field B. Changing magnetic field C. Varying magnetic field D. Constant electric field E. None of these
16	The power factor of resonant series circuit is	A. 1 B. 0 C. -1 D. 0.5
17	When a shell explodes in mid-air, its fragments fly off in	A. only one direction B. in two direction C. different directions D. a particular direction
18	Nuclei that have the same charge number but different mass number are called	A. isotones B. isomers C. isotopes D. isobars
19	If the water falls from a dam into a turbine wheel 19.6 m below, then the velocity of water at the turbine, is (Take $g=9.8 \text{ m/s}^2$)	A. 9.8 m/s B. 19.6 m/s C. 39.2 m/s D. 98.0 m/s
20	Compton studied the scattering of x-rays by loosely bound electrons from:	A. NaCl crystal B. Graphite crystal C. Zirconia D. Copper crystal E. None of these