Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	A stone is dropped from rest from the top of a tower 19.6 m high. The distance traveled during the last second of its fall is (giving g=9.8 m/s^S)	A. 9.8 m B. 14.7 m C. 4.9 m D. 19.6 m
2	If the displacement of a body executing S.H.M is plotted against time, then the curve is known as	A. frequency of S.H.M B. period of S.H.M C. wave form D. none of them
3	The magnetism produced by electrons within an atom can arise from	A. electrons orbiting the nucleus B. electrons posses a spin C. both motions D. none of these motions
4	Position and momentum of a particle cannot both be measured simultaneously with perfect accuracy. This is the statement of	A. photoelectric effect B. pair production C. Compton effect D. uncertainty principle
5	Matter is made up of very tiny particles called	A. Atoms B. Molecules C. Ions D. None of these
6	An important part of photocopier is:	A. Toner cartridge<o:p></o:p> B. Deflection plates <o:p></o:p> C. Charging electrode<o:p></o:p> D. Print head<o:p></o:p> E. None of these<o:p></o:p>
7	At the constant temperature, if the value of a given mass of a gas is double, then the density of gas becomes:	A. Double B. Remains constant C. Half D. None of these
8	Davision and Germer performed experiment to verify	A. de-Brogile hypothesis B. theory of relativity C. Newton's law of gravitation D. Mass-energy relation
9	Energy is not carried by	A. Transverse progressive waves B. Longitudinal vibration C. Stationary waves D. Electromagnetic
10	If we draw a graph between d (along x-axis) and F (along y-axis) and get a straight line horizontal to x-axis, then area under this straight line represents:	A. Power B. Work C. Pressure D. None of these
		A. Opposite to the direction of motion

11	The length contraction happens only	B. along the direction of motion C. perpendicular to the direction of motion D. In any direction
12	Experiments revealed that the ratio of the stress to the strain is a constant value for	A. different material B. all materials C. a given material D. all of them
13	If a charged spherical conductor of radius 10 cm has potential V at a point distance 5 cm from its centre, then the potential at a point distance 15 cm from the centre will be	A. 1/3 V B. 2/3 V C. 3/2 V D. 3V
14	The A.M. transmission frequency range from	A. 500-1000 KHz B. 540-1600 KHz C. 300-490 KHz D. 900-2040 KHz
15	The work done by a force, keeping an object in circular motion with constant speed is:	A. Zero J B. 1 J C. 0.1 J D. 0.01 J
16	Work has a dimension as that of:	A. Torque B. Angular momentum C. Linear momentum D. Power
17	The error may occur due to:	A. Negligence B. Faulty apparatus C. Inappropriate method D. all of these
18	The torque per unit twist of coil is called	A. proportionality constant B. gravitational constant C. boltzman constant D. coupling constant
19	The motion in a plane is the motion in	A. one dimension B. two dimension C. three dimension D. four dimension
20	A uniform bar AE of weight 9 N is held horizontal by vertical forces. Two additional force act A and D as shown in figure. The points A,B,C,D and E are at equal intervals along the bar. At which point must vertical force of 6 N act to keep bar in equilibrium.	A. Point D B. Point E C. Point C D. Point B