

ECAT Pre General Science MCQ's Test For Physics Full Book

Sr	Questions	Answers Choice
1	A long wire wound tightly on a cylindrical core is called:	A. Potentiometer B. Solenoid C. Toroid D. Wheat and stone bridge E. None of these
2	The ratio of the r.m.s value of the applied voltage to the r.m.s value of resulting a.c. is	A. Impedance B. Inductance C. Reactance D. Resistance
3	Maximum height of a bullet when fired at 30 with horizontal is 11 m. Then height when it is fired at 60° is	A. 22 m B. 6 m C. 33 m D. 7.8 m
4	Physics deals with the study of	A. Matter B. Energy C. Both of them D. Human Body
5	Two forces of 10 N and 8 N are applied simultaneously to a body. the maximum value of their resultant is:	A. 2 N B. - 2 N C. 18 N D. 36 N
6	One radian is:	A. Greater than one degree B. Less than one degree C. Equal to one degree D. None of these
7	If the waves produced in a microwave oven are of wave-length 12 cm, then their frequency will be:	A. 2500 MHz B. 0.25 MHz C. 2500 KHz D. None of these
8	Which of the following has a great concentration of impurity	A. base B. emitter C. collector D. none of these
9	We can express the work in term of	A. directly measurable variables B. indirectly measurable variables C. either of them D. both of them
10	When a mass 'm' is pulled slowly through a distance 'x ₀ ', the elastic potential energy of the spring would be	A. $P.E = Kx^2$ B. $P.E = \frac{1}{2}kx$ C. $P.E = \frac{1}{2}Kx^2$ D. $P.E = Kx^2$
11	In n-p-n transistor, emitter base junction is kept	A. reversed B. forward biased C. may be reversed or may be forward biased D. none of these
12	Which one of the following is dimensionless:	A. Acceleration B. Velocity C. Density D. Angle
13	Work has the dimension as that of:	A. Torque B. Angular momentum C. Linear momentum D. Power
14	A boy pulls a toy car through a distance of 5 m by applying a force of 0.5 N, which makes and angle of 60° with the horizontal. The work done by the boy is:	A. 1.25 J B. 12.5 J C. 125 J D. None of these

15	A body of mass 5 kg is acted upon by a constant force of 20 n for 7 seconds. The total change in momentum will be:	<ul style="list-style-type: none"> A. 10 NS B. 100 NS C. 140 NS D. 200 NS
16	When the body is moves against the force of friction on a horizontal plane, the work done by the body is:	<ul style="list-style-type: none"> A. Positive B. Negative C. Zero D. None of these
17	Power is a :	<ul style="list-style-type: none"> A. Vector quantity B. Base quantity C. Scalar quantity D. None of these
18	An electron of charge e coulomb passes through a potential difference of V volts its energy in joules will be	<ul style="list-style-type: none"> A. V/e B. eV C. e/V D. V
19	A train is moving with a velocity of 25 m/s and a car is moving behind it by a velocity of 8 m/s in same direction. The relative velocity of train with respect to car is	<ul style="list-style-type: none"> A. 17 m/s B. 33 m/s C. 17.5 m/s D. none
20	When a silicon crystal is doped with a pentavalent element, such an extrinsic semi-conductor is called	<ul style="list-style-type: none"> A. p-type semi-conductor B. n-type semi-conductor C. either of them D. none of them