

ECAT Pre General Science Physics Online Test

Sr	Questions	Answers Choice
1	The work performed on an object does not depend on:	A. Force applied B. Angle at which force is inclined to the displacement C. Initial velocity of the object D. Displacement
2	A lift is moving up with acceleration equal to 1/5 of that due to gravity. The apparent weight of a 60 kg man standing in lift is	A. 60 kg wt B. 72 kg wt C. 48 kg wt D. Zero
3	In the case of an incompressible fluid in stead flow the net rate of flow of mass entering one end of the tube of flow is equal to the net rate of flow of mass leaving the other end. This equation is called	A. Quadratic equation B. Equation of discontinuity C. Equation of continuity D. None of the above
4	Uncertainty is of following type/types:	A. Absolute B. Fractional C. Percentage D. All of these
5	Pair production is the phenomenon in which	A. matter is converted into energy B. energy is converted into matter C. light is converted into electrical energy D. electrical energy is converted into light
6	Alternating current is produced by a voltage source which polarity:	A. Remains the same B. Reverse after period T C. Keeps on reversing with time D. Reverse after every time interval T/2 E. Both (C) and (D)
7	When a charged particle passes through matter, it produces ionization, this effect is used in	A. fission reaction B. reactor C. radiation detector D. fusion reaction
8	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
9	Each atom in metal crystal:	A. Remains fixed B. Vibrates about a fixed point C. Moves randomly D. Rotates about center of a crystal E. None of these
10	The quantity having the same unit as that of emf is:	A. Force B. Energy C. Potential D. Current E. Charge
11	The weight 'mg' of the bob is resolved into	A. one component B. two components C. three components D. four components
12	At 'resonance' the transfer of energy from deriving source to the oscillator is	A. maximum B. minimum C. zero D. none of them
13	The magnitude of the force producing an acceleration of 10 m/sec ² in a body of mass 500 grams is:	A. 3 N B. 4 N C. 5 N D. 6 N
14	If force and displacement are in opposite direction, the work done is taken as:	A. Positive work B. Negative work C. Zero work D. Infinite work

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15	The number of vibrations in two seconds can be expressed asif frequency of vibration is f.	A. † B. 2 f C. 3 f D. 1/2 f
16	Which of the following medium/media can transmit both transverse and longitudinal waves:	A. Solids B. Liquids C. Gases D. All of them
17	Significant figures in 0.0010 are:	A. Four B. Three C. Two D. One
18	An example of photoconductor is:	A. Boron<o:p></o:p> B. Carbon<o:p></o:p> C. Iron<o:p></o:p> D. Iron<o:p></o:p> E. Aluminum<o:p></o:p> E. Selenium<o:p></o:p>
19	When a water droplet falls through air, the net force on it is	A. Net force = drag force - weight B. Net force = weight - drag force C. Net force = drag force + weight D. Net force = weight + drag force
20	The flux through a closed surface depends upon:	A. Shape of geometry of the closed surface<o:p></o:p> B. Charge enclosed<o:p></o:p> C. Nature of the medium<o:p></o:p> P. Nature of the medium<o:p> P. Nature of the medium<o:p> P. Nature of the medium<o:p></o:p></o:p></o:p>