

ECAT Pre General Science Physics Online Test

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Sr	Questions	Answers Choice
1	Method "lamp and scale arrangement" used to measure the	A. angle of deflection B. restoring torque C. magnetic field strength D. current
2	Due to relative motion of observer and the frame of reference of events, time always:	A. Dilates itself B. Contracts itself C. Stretches itself D. Both (A) and (C) E. None of these
3	A curie represents a very strong source of	A. α-particle B. β-particle C. γ-particle D. none of these
4	One coulomb per second is equal to	A. One volt B. One ampere C. One hom D. One henry
5	A ten ohm electric heater operates on a 110 V line. Calculate the rate at which it develops heat in watts	A. 1310 W B. 670 W C. 810 W D. 1210 W
6	The efficiency of diesel engine is	A. 25% B. 25 - 30% C. 35% D. 35 - 40%
7	Boyle's law is applicable in	A. Isochoric process B. Isothermal process C. Isobaric process D. Isotonic process
8	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
9	The change of magnetic flux through a circuit will produce	A. Magnetic Field B. Electric Field C. emf D. a.c
10	When the object lies between F and 2F, the image formed by is formed at:	A. Virtual B. Diminished C. Erect D. Real
11	In the equilibrium state, the potential difference between two ends of the conductor moving across a magnetic field is called:	A. Both A and C B. Induced emf C. Both A and B D. Motion emf E. Electrostatic emf
12	Magnetic flux passing through a element whose vector area makes an angle 0° with lines of magnetic force is:	A. BA CosΘ <o:p></o:p> B. Zero

		D. BA sin Θ E. None of these
13	The value of current at resonance in series LCR circuit is affected by the value	A. R only B. C only C. L only D. R, C and L
14	The resistance of an incandescent lamp is	A. Smaller when switched on B. Greater when switched off C. The same whether it is switch off or switch on D. Greater when switched on
15	The value of resistivity is the least for:	A. Copper B. Aluminimum C. Silver D. Tungsten E. Iron
16	Which of the following diode is used for the detection of light	A. photo diode B. light emitting diode C. photo voltaic cell D. all of them
17	The speed of the secondary wavelets as mentioned in Huygen's principle is the speed of propagation of the wave itself.	A. Equal to B. Greater than C. Smaller than D. None of these
18	A 100 kg car is moving at a speed of 10 m/sec and comes to rest after covering a distance of 50 m. the amount of work done against friction is:	A. +5 x 10 ¹ J B. +5 x 10 ² J C. +5 x 10 ³ J D. +5 x 10 ⁴ J
19	No spark plug is needed in	A. petrol engine B. diesel engine C. both of them D. none of them
20	If both the inputs given to a gate ae 1 such that the output is 0, then it is:	A. AND gate B. NOR gate C. OR gate D. NOT gate E. Both (A) and (C)