

ECAT Physics Online Test

Sr	Questions	Answers Choice
1	Examples of crystalline solids are:	A. Cooper B. NaCl C. Zirconia D. Both (A) and (B) E. All of these
2	The consumption source if energy is:	A. Energy from blomass B. Hydroelectric energy C. Geothermal energy D. None of these
3	SI unit of frequency is	A. second B. hertz C. revolution D. vibrations/sec
4	The colour sequence in a carbon resistor in red, brown, orange and silver. The resistance of the resistor is	A. 21 x 10 ³ <u>+</u> 10% B. 23 x 10 ¹ <u>+</u> 10% C. 21 x 10 ³ <u>+</u> 5% D. 12 x 10 ³ <u>+</u> >5%
5	The location and speed anywhere on earth can now be determined using relativistic effects by NAVISTAR to an accuracy of	A. 2 cm/s B. 20 cm/s C. 200 cm/s D. 2000 cm/s
6	How many number of anodes used in electron gun	A. one B. two C. three D. six
7	The energy stored in a charge capacitor	A. 1/2CV ² B. 1/2C ² V C. 1/2C/V ² D. None of these
8	Root out the conventional source of energy:	A. Energy from blomass B. hydroelectric energy C. Geothermal energy D. None of these
9	The electric lines of force are	A. Imaginary B. Physically existing everywhere C. Physically existing near the charge D. All of the above
10	High speed meteors rushing through air reduces to ashes because of:	A. Force of gravity B. High resistance of air C. Drag force D. None of these
11	Bernoulli's equation is applicable for	A. turbulent flow B. streamline flow C. both (a) and (b) D. all kinds of flows
12	Battery is charged in motor cars, which is based on	A. Chemical effect B. Magnetic effect C. Electric effect D. None
13	It is impossible to devise a processes which may convert heat, extracted from a single reservoir, entirely into work without leaving any change in the working system. This is the statement of	A. Clausius statement of second law B. Kelvin'sstatement of second law C. Clausius statement of first law D. Kelvin's statement of first law
14	The artillery shells travel along parabolic paths under the influence of	A. magnetic field B. electric field C. electromagnetic field D. gravitational field
		A. Motor

15	The most common source of alternating voltage is:	B. I ranstormer C. AC genrator D. Both (A) and (C) E. Both (A) and (B)
16	Rate of decay is actually described by.	A. Half line B. Decay constant C. Mean life D. Total life E. None of these
17	The ratio of average e.m.f in the coil tot he time rate of change of current in the same coil is called	A. Mutual induction B. Mutual inductance C. Capacitance D. Self inductance
18	Bernoulli's equation is based upon law of conservation	A. Mass B. Momentum C. Energy D. None of these
19	In full wave rectification, simultaneous action is that:	A. Two diodes conduct and two do not. B. One diode conduct and three do not. C. Three diodes conduct and one does not. D. All the four diodes conduct E. None of these
20	Which of the following statements for an object in equilibrium is not true?	A. The object must be at rest B. The object can be at rest C. The object is moving at constant speed D. The acceleration of the object is zero