

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

Sr	Questions	Answers Choice
1	Ohm established a relation between	A. voltage and resistance B. voltage and charge C. voltage and current D. voltage resistance and charge
2	Referring to above figure, a changing current in coil P can be produced:	A. At the instant the switch is closed B. At the instant the switch is opened C. With the help of rheostat D. All of these E. None of these
3	If R is gas constant for 1 gram mole, $C_p$ and $C_v$ are specific heat for a solid then	A. $C_p < C_v$ B. $C_p < C_v$ &lt; $R$ C. $C_p < C_v$ D. $C_p < C_v$ &gt; $R$
4	Which of the following does not obey ohm's law?	A. Copper B. Al C. Diode D. None
5	The electrons occupying the conduction band are known as	A. conduction electrons B. free electrons C. both of them D. none of them
6	The magnitude of the displacement is a line from initial position to final position which is	A. straight B. curved C. either be curved or straight D. none of them
7	A dimension stands for the _____ nature of certain physical quantity.	A. super B. Quantitative C. Qualitative D. Both B and C
8	A 120 m long train is moving in a direction with speed 20 m/s. A train B moving with 30 m/s in the opposite direction and 130 m long crosses the first train in a time	A. 6 s B. 36 s C. 38 s D. None of these
9	1 gm-cm <sup>3</sup> is equal to:	A. 10 <sup>3</sup> kg-m <sup>3</sup> B. 10 <sup>-3</sup> kg-m <sup>3</sup> C. 1 kg-m <sup>3</sup> D. 10 <sup>6</sup> kg-m <sup>3</sup>
10	Work is a:	A. Scalar quantity B. Vector quantity C. Base quantity D. None of these
11	After alpha decay the atomic number of the atom	A. increase by four B. decreases by two C. increases by two D. decrease by four
12	The SI unit of magnetic permeability is	A. Wb A <sup>-1</sup> m <sup>-1</sup> B. Wb mA <sup>-1</sup> C. Wb Am <sup>-1</sup> D. None of these
13	To observe interference of light, the condition, which must be met with is that the sources must be:	A. Monochromatic B. Phase coherent C. Both of above D. None of above
		A. Electromagnetic force and is

14	Motional emf is called motional:	<p>measured in newtons</p> <p><b>B. Electromotive force and is measured in volt</b></p> <p>C. Electromotive force and is measured in newtons</p> <p>D. Electromagnetic force and is measured in volts</p> <p>E. None of these</p>
15	The Boltzman constant has the value	<p><b>A. <math>1.38 \times 10^{-23} \text{ JK}^{-1}</math></b></p> <p>B. <math>1.28 \times 10^{-23} \text{ JK}^{-1}</math></p> <p>C. <math>1.38 \times 10^{-26} \text{ JK}^{-1}</math></p> <p>D. <math>1.28 \times 10^{-26} \text{ JK}^{-1}</math></p>
16	Potentiometer is more sensitive than voltmeter, because	<p>A. Voltmeter has a very high resistance</p> <p>B. Voltmeter has a very low resistance</p> <p><b>C. Potentiometer does not draw any current from a source of unknown potential difference</b></p> <p>D. Potentiometer is sensitive</p>
17	The solids which has structure in-between order and disorder are called	<p>A. amorphous solids</p> <p><b>B. polymeric solids</b></p> <p>C. crystalline solids</p> <p>D. all of them</p>
18	Average value of A.C voltage during one cycle is	<p>A. 1</p> <p><b>B. Zero</b></p> <p>C. Maximum</p> <p>D. Variable</p>
19	The He-Ne laser discharge tube is filled with:	<p><b>A. 85% He</b></p> <p>B. 15% He</p> <p>C. 50% He</p> <p>D. 60% He</p> <p>E. 85% Ne</p>
20	By placing a dielectric in between the charges, the electrostatic force between them	<p><b>A. Is always reduced</b></p> <p>B. Is always increased</p> <p>C. Is not affected</p> <p>D. Is increased one million times</p> <p>E. None of these</p>