

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

Sr	Questions	Answers Choice
1	Electrostatics is the branch of physics which deals with the study of electro charges:	A. <span style='font-size:12.0pt;line-height:107%;font-family: "Times New Roman","serif"'>At rest&lt;0:p&gt;</span> B. <span style='font-size:12.0pt;line-height:107%;font-family: "Times New Roman","serif"'>At rest under the action of electric forces&lt;0:p&gt;</span> C. <span style='font-size:12.0pt;line-height:107%;font-family: "Times New Roman","serif"'>In motion under the action of electric forces&lt;0:p&gt;</span> D. <span style='font-size:12.0pt;line-height:107%;font-family: "Times New Roman","serif"'>In motion under the action of electric forces&lt;0:p&gt;</span> E. <span style='font-size:12.0pt;line-height:107%;font-family: "Times New Roman","serif"'>In motion&lt;0:p&gt;</span> E. <span style='font-size:12.0pt;line-height:107%;font-family: "Times New Roman","serif"'>At rest under the action of nuclear forces&lt;0:p&gt;</span>
2	The maximum distance of body from mean position when body is executing SHM is called	A. Time period B. Displacement C. Amplitude D. Frequency
3	If yellow light emitted by sodium lamp in Young's double slit experiment is replaced by blue light of the same intensity	A. Fringe width will decrease B. Fringe width will increase C. Fringe width will remain unchanged D. Fringe will become less intense
4	An object is dropped from a height of 100 m. Its velocity at the moment it touches the ground is:	A. 100 m/sec B. 140 m/sec C. 1960 m/sec D. 196 m/sec
5	The value of relative permittivity of different dielectrics are	A. Equal B. Different C. Greater than one D. Smaller than one E. Both B and C
6	A galvanometer in which the coil comes to rest quickly after the current passed through it, or the current stopped form flowing through it, is called	A. dead beat galvanometer B. stable galvanometer C. shunt galvanometer D. sensitive galvanomter
7	Two progressive waves of frequency 250 Hz are superimposed to produce a stationary wave in which adjacent nodes are 2 m apart. The speed of the progressive waves is.	A. 125 m/se B. 500 m /sec C. 250 m/sec D. 1000 m/sec
8	There is no net transfer of energy by particle of medium in	A. Longitudinal wave B. Transverse wave C. Progressive wave D. Stationary wave
9	A flywheel accelerates from rest to an angular velocity of 7 rad/sec in 7 seconds. Its average acceleration will be:	A. 49 rad/sec <sup>2</sup> B. 1 rad/sec <sup>2</sup> C. 0.16 rev/sec <sup>2</sup> D. Both A and C E. Both B and C
10	Biomass includes:	A. Crop residue B. Natural vegetation C. Animal dung D. All of these

11	When the object lies between F and 2F, the image formed by is formed at:	A. Virtual B. Diminished C. Erect D. Real
12	The kinetic energy of one molecule of a gas at normal temperature and pressure will be (k = $8.31 \ J/mole\ K)$ :	A. 1.7 x 10 <sup>3</sup> J B. 10.2 x 10 <sup>3</sup> J C. 34 x 10 <sup>3</sup> J D. 6.8 x 10 <sup>3</sup> J
13	Boyle's law is applicable in	A. Isochoric process B. Isothermal process C. Isobaric process D. Isotonic process
14	A rheostat can e used:	A. As variable resistor B. As potential divider C. For varying the current D. All of these E. None of these
15	The open loop gain of OP-AMP is of the order of	A. 10 <sup>2</sup> B. 10 <sup>3</sup> C. 10 <sup>4</sup> D. 10 <sup>5</sup>
16	If rope of lift breaks suddenly. The tension exerted by the surface of lift is (a=Acceleration of lift)	A. mg B. m (g+a) C. m (g - a) D. 0
17	We can express the work in term of	A. directly measurable variables B. indirectly measurable variables C. either of them D. both of them
18	The volume of universal gas constant R is:	A. 8.314 J/K mole K B. 8314 J/K mole K C. 8.314 J/mole K D. None of these
19	The magnitude of induced emf depends upon the:	A. Rate of decrease of magnetic field     B. Rate of change of magnetic field     C. Rate of increase of magnetic flux     D. Constancy of magnetic field     E. None of these
20	When two spherical conducting balls at different potentials are joined by metallic wire, the current starts:	A. <span style='font-size:12.0pt; line-height:107%; font-family:" Times New Roman", " serif"'>Decreasing from zero to maximum<o:p></o:p></span> B. <span style='font-size:12.0pt; line-height:107%; font-family:" Times New Roman", " serif"'>Increasing from zero to maximum<o:p></o:p> C. <span style='font-size: 12pt; line-height: 107%; font-family: " Times New Roman", serif;'>Decreasing from maximum to zero &gt;&gt;o:p&gt; D. <span style='font-size:12.0pt; line-height:107%; font-family: " Times New Roman", serif; font-size:12.0pt; line-height:107%; font-family: " Times New Roman", " serif" '>Increasing from maximum to zero<o:p></o:p> E. <span style='font-family: " Times New Roman", serif; font-size: 12pt; text-align: justify;'>Both (A) and (D)</span><span style='font-size:12.0pt; line-height:107%; font-family: " Times New Roman", &amp;erif; font-size: 12pt; text-align: justify;'>Span style="font-size:12.0pt; line-height:107%; font-family: " Times New Roman", &amp;equot &amp;e</span></span></span></span>