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

| Sr | Questions | Answers Choice |
|---|---|---|
| 1 | Radioactivity was discovered by: | A. Becquerel<br>B. Marie curie<br>C. Pierre curie<br>D. All of them<br>E. None of these |
| 2 | Flux through a closed surface of any shape and flux through the surface of a sphere drawn around a charge are: | A. Different<br>B. Same<br>C. Such that it is greater in the first case<br>D. Such that it is greater in the second case<br>E. None of these |
| 3 | The efficiency of carnot engine cannot be 100% or one unless cold reservoir is at | A. 100 K<br>B. 273 K<br>C. 0 K<br>D. -273 K |
| 4 | A typical four stroke petrol engine undergoes how many successive processes in each cycle | A. one<br>B. two<br>C. three<br>D. four |
| 5 | During the steady flow, different streamlines | A. cannot across each other<br>B. can across each other<br>C. either of them<br>D. neither of them |
| 6 | When brakes are applied to a fast moving car, the passenger will be thrown: | A. Forward<br>B. Backward<br>C. Downward<br>D. none of these |
| 7 | The damping depends upon the | A. amplitude<br>B. sharpness<br>C. both of them<br>D. none of them |
| 8 | Real gases strictly obey gas law at: | A. High pressure and low temperatures<br>B. Low pressures and high temperatures<br>C. High pressures and high temperatures<br>D. None of these |
| 9 | Two satellites are to be launched into space from the surface of eatth satellite 1 has mass 10 kg and volume 1500 cm3. While satellite 2 has mass 5 kg and volume 1000 m3. Assume the required escape velocities of satellite 1 and satellite 2 are v 1 and v2 , respectively. The relation between v1 and v2 is. | A. Relation depends on the launch<br>B. V1>V2<br>C. V1 = V2<br>D. V1 <V2 |
| 10 | The magnifier forms a virtual image of the object at: | A. None of these<br>B. Both A and B are correct<br>C. Much farther than the least distance<br>D. Least distance of distinct vision |

| 11 | As compared to the distance measured by an observer on Earth, the distance from Earth to a star measured by an observer in a moving spaceship would seem: | A. Smaller<br>B. Lerger<br>C. Same<br>D. Much larger<br>E. None of these |
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| 12 | The consumption of energy by a 60 W bulb in 2 minutes is: | A. 2 watt-hour<br>B. 120 watt-hour<br>C. 30 watt-hour<br>D. None of these |
| 13 | An object undergoes S.H.M has maximum acceleration when its displacement form the means position | A. maximum<br>B. zero<br>C. half of the maximum value<br>D. one third of the maximum value |
| 14 | A non-inertial frame of reference is that frame of reference in which | A. <b>a</b> = 0<br>B. <b>a</b> &gt; 0 or <b>a</b> &lt; 0<br>C. <b>v</b> = 0<br>D. none of them |
| 15 | One coulomb of charge is created by | A. 10 electrons<br>B. 1.6 x 10<sup>-19</sup>electrons<br>C. 6.25 x 10<sup>18</sup>electrons<br>D. 6.25 x 10<sup>21</sup>electrons |
| 16 | According to the special theory of relativity, a moving clock | A. runs faster<br>B. runs slower<br>C. neither runs faster nor slower<br>D. all of these |
| 17 | The dimension of linear inertia is: | A. MLT<sup>2</sup><br>B. ML<sup>0</sup>T<sup>-2</sup><br>C. ML<sup>0</sup>T<sup>0</sup><br>D. MLT<sup>-1</sup> |
| 18 | Electric field lines emerge from the charge in: | A. <p class="MsoNormal"><span style="font-size:12.0pt;line-height:107%;font-family: &quot;Times New Roman&quot;,&quot;serif&quot;">One dimension<o:p></o:p></span></p><br>B. <p class="MsoNormal"><span style="font-size:12.0pt;line-height:107%;font-family: &quot;Times New Roman&quot;,&quot;serif&quot;">Two dimensions<o:p></o:p></span></p><br>C. <p class="MsoNormal"><span style="font-size: 12pt; line-height: 107%; font-family: &quot;Times New Roman&quot;, serif;">Three dimensions<b><o:p></o:p></b></span></p><br>D. <p class="MsoNormal"><span style="font-size:12.0pt;line-height:107%;font-family: &quot;Times New Roman&quot;,&quot;serif&quot;">Four dimensions<o:p></o:p></span></p><br>E. <p class="MsoNormal"><span style="font-size:12.0pt;line-height:107%;font-family: &quot;Times New Roman&quot;,&quot;serif&quot;">None of them<o:p></o:p></span></p> |
| 19 | The cause of mirage observed in deserts in bright sunlight is due to | A. Refraction of light<br>B. Reflection of light<br>C. Scattering of light<br>D. Total internal reflection of light |
| 20 | The graph showing the variation of displacement with time is a | A. Sine curve<br>B. Straight line<br>C. Parabola<br>D. None of these |