

## Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	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
2	The unit of decay constant is:	A. Second B. Metre C. Hour D. Year E. Second <sup>-1</sup>
3	The formula of Brackett series can be obtained by putting in the general formula, the value of n equal to:	A. <div>one</div> B. two C. three D. four E. five
4	Addition of 2.189 kg, 0.089 kg, 11.8 kg, and 5.32 kg gives the rounded off answer as:	A. 19.398 B. 19.400 C. 19.4 D. 19.3
5	Pressure exerted by a gas on the walls of its container in due to	A. adhesion between the gas molecules and the container B. cohesion between the gas molecules and the container C. collision between the gas molecules and the container D. surface tension of the gas
6	A snooker ball moving with velocity V collides head on with another snooker ball of same mass at rest. If the collision is elastic, the velocity of second snooker ball is	A. Zero B. Infinity C. V D. 2 V
7	A reversible cycle is the one in which	A. some of the changes are reversible B. all of the changes are reversible C. all of the changes are irreversible D. none of them
8	As the current flows through the wire	A. It generates heat in the wire B. It produces sound in the wire C. Resistance of the wire decrease D. Voltage across the ends is the increase E. None of these
9	When a constant potential difference is applied across the conductor, the drift velocity of electrons:	A. <ppan style='font-size:12.0pt; line-height:107%; font-family:" Times New Roman","serif"'>Increases<o:p></o:p> B.  <ppan style='font-size:12.0pt; line-height:107%; font-family:" Times New Roman","serif"'>Decreases<o:p></o:p> C.  <ppan style='font-size: 12.0pt; line-height: 107%; font-family: " Times New Roman", serif;'>Remains the constant </ppan></ppan></ppan>

	the action of forces is called:	C. Thermodynamics D. Astro physics
11	An electron of charge e coulomb passes through a potential difference of V volts its energy in joules will be	A. V/e B. eV C. e/V D. V
12	The appearance of the colour in the soap (oil) film results from:	A. Dispersion B. Interference C. Reflection D. Refraction
13	The results of mechanical tests are usually expressed in terms of	A. stress B. strain C. stress and strain D. neither strees nor strain
14	The term Brownian movement refers to	A. irregular motions of small particles suspended in a fluid B. convection currents in a liquid or gas C. convection currents in a gas but not in a liquid D. the stretching of a body beyond its elastic limit
15	In flesh, light element like carbon, hydrogen and oxygen predominate. Three elements allows amount of incident X-ray to pass through them	A. Small B. Greater C. Equal D. Sometimes
16	Blood has a density	A. Equal to water B. Greater then water C. Lesser then water D. None of these
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	The sum of the magnitude of two forces acting at a point is 18 and the magnitude of their resultant is 12. If the resultant is at 90° with the force of the smaller magnitude, then their magnitudes are	A. 3, 15 B. 4, 14 C. 5, 13 D. 6, 12
19	The distance from eye to near point is taken as:	A. 10 cm B. 15 cm C. 20 cm D. 25 cm
20	The strength of magnetic field at certain points around a wire depends upon:	A. <span style='font-size:12.0pt; line-height:107%; font-family:"Times New Roman","serif"'>Value of current passing&lt;0:p&gt;</span> B. <span style='font-size:12.0pt; line-height:107%; font-family:"Times New Roman","serif"'>Distance from the current element&lt;0:p&gt;</span> C. <span style='font-size:12.0pt; line-height:107%; font-family:"Times New Roman","serif"'>Color of the material&lt;0:p&gt;</span> D. <span style='font-size:12.0pt; line-height:107%; font-family: "Times New Roman", serif;'>Both (A) and (B)<b><o:p></o:p> E.  <span> <span> E.  <span> <span> E.  <span> <span> E. </span></span></span></span></span></span></span></span></span></span></span></span></span></span></span></span></span></span></span></span></span></b></span>