

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

Sr	Questions	Answers Choice
1	The analysis of fluid motion becomes simplified by using	A. law of conservation B. law of conservation of energy C. both of them D. none of them
2	A vector which has magnitude 'one' is called:	A. Resultant vector B. A unit vector C. Position vector D. None of these
3	The dimensions of work	A. $[MLT^{-1}]$ B. $[MLT^{-2}]$ C. $[ML^2T^{-2}]$ D. $[MLT]$
4	When the speed of a body in a fluid increases then the drag force	A. decreases B. becomes zero C. increases D. non of them
5	When the different streamlines cannot cross each other, then this condition is known as	A. continuity condition B. turbulent flow condition C. steady flow condition D. none of them
6	The equation of continuity $A_1V_1 = A_2V_2$ is for the flow of	A. an ideal fluid B. an incompressible fluid C. a non visconcouous fluid D. all of the above
7	If A represents linear momentum and c, the velocity of light, then unit of pc in international system of units is:	A. Newton B. Joule C. Joule-Sec D. Joule-s <sup>-1</sup> E. Watt
8	Magnetic induction is also called as:	A. <span style="font-size: 12pt; font-family: 'Times New Roman', serif;">Ampere's law</span> B. <span style="font-size: 12.0pt; font-family: 'Times New Roman', serif;">Faraday's law</span> C. <span style="font-size: 12.0pt; font-family: 'Times New Roman', serif;">Lenz's law</span> D. <span style="font-size: 12.0pt; font-family: 'Times New Roman', serif;">Newton's law</span> E. <span style="font-size: 12.0pt; font-family: 'Times New Roman', serif;">Coulomb's law</span>
9	Tesla is the unit of	A. Magnetic induction or flux density B. Magnetic flux C. Self inductance D. None of these
10	The SI unit of magnetic flux is.	A. weber B. Nm <sup>-1</sup> A <sup>-1</sup> C. tesla D. gauss

11	Internal energy is the sum of all the forms of	A. K.E B. P.E C. both of them D. none of them
12	If the water falls from a dam into a turbine wheel 19.6 m below, then the velocity of water at the turbine, is (Take $g=9.8 \text{ m/s}^2$ )	A. 9.8 m/s B. 19.6 m/s C. 39.2 m/s D. 98.0 m/s
13	A body with frequency would complete one vibration in:	A. f seconds B. $1/f$ seconds C. 1 second D. $f^2$ second
14	All trigonometric functions (since, cosine tangent etc. ) are positive in:	A. 1st Quadrant B. 2nd Quadrant C. 3rd Quadrant D. 4th Quadrant
15	When thorium nucleus emits a $\beta$ -particle, the daughter nucleus is called:	A. Protactinium B. Actinium C. Uranium D. Radium E. Redon
16	The SI unit of capacitance is	A. Farad B. Henry C. Ohm D. Volt
17	The SI unit of magnetic permeability is	A. $\text{WB A}^{-1}\text{m}^{-1}$ B. $\text{WB mA}^{-1}$ C. $\text{WB Am}^{-1}$ D. None of these
18	A weakly damped system has fairly	A. sharp resonance curve B. flat resonance curve C. both of them D. none of them
19	According to Einstein, with the great increase in the speed of the body the relativistic length of the body	A. Remains constant B. Decreases C. Increases D. Reduces to zero
20	The ultimate source of money sources of energy is:	A. Sun B. Air C. Water D. Petroleum