

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

Sr	Questions	Answers Choice
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1	The consumption of energy by a 1000 watt heter in half an hour is:	B. 0.5 Kwh C. 2.5 Kwh D. 3.2 Kwh
2	A heat engine is that which converts	A. mechanical energy into thermal energy B. thermal energy into mechanical energy C. K.E into potential energy D. heat energy into light energy
3	When brakes are applied to a fast moving car, the passenger will be thrown:	A. Forward B. Backward C. Downward D. none of these
4	Op-amp has been discussed as comparator of:	A. Distances B. Voltages C. Velocities D. Magnetic fields E. Both (A) and (C)
5	Time period of simple pendulum is independent of	A. length B. mass C. acceleration due to gravity D. none of them
6	Velocity is a	A. scalar quantity B. vector quantity C. constant quantity D. none of them
7	Mass of proton is	A. 1.67 x 10 <sup>-27</sup> kg B. 1.67 x 10 <sup>-31</sup> kg C. 1.66 x 10 <sup>-34</sup> kg D. 1.67 x 10 <sup>-17</sup> kg
8	Hold the solenoid in the right hand with fingers curling in the direction of current. The direction of the field will be given by:	A. <span style='font-size: 12pt; line-height: 107%; font-family: " Times New Roman", serif;'>Thumb<b>&gt;<o:p>p&gt;</o:p></b></span> B. <span style='font-size: 12.0pt; line-height: 107%; font-family: " Times New Roman", " serif"'>Curleotingers<o:p></o:p></span> C. <span style='font-size: 12.0pt; line-height: 107%; font-family: " Times New Roman" " serif"'>Middle fingers<o:p></o:p></span> D. <span style='font-size: 12.0pt; line-height: 107%; font-family: " Times New Roman" " serif"'>Arm of right hand<o:p>p&gt;</o:p></span> E. <span "="" &quot;="" 107%;="" 12.0pt;="" font-family:="" font-size:="" line-height:="" new="" roman&quot;="" serif&quot;="" style='font-size: 12.0pt; line-height: 107%; font-family: " Sepan style=' times="">None of these<o:p>p&gt;p&gt;</o:p></span>
9	Max plank received the Nobel Prize in physics for his discovery of energy quanta in	A. 1900 B. 1906 C. 1912 D. 1918
		A.

10	When some compass needles are placed on a card board along a circle with the center at the wire, they will	align:justity"> <span style='tont-size: 12pt; line-height: 107%; font-family: "Times New Roman", serif;'>Point the direction of N-S<b> <o:p></o:p></b></span> B. <span style='font- size:12.0pt; line-height:107%;font- family:"Times New Roman","serif"'>Set themselves tangential to the circle<o:p></o:p></span> C. <span style='font- size:12.0pt; line-height:107%;font- family:"Times New Roman","serif"'>Point in the direction of E-W<o:p></o:p> </span> D. <span style='font- size:12.0pt; line-height:107%;font- family:"Times New Roman","serif"'>None of these<o:p></o:p></span> E. Point in direction of S-E
11	The minimum resistance that can be obtained by connecting 5 resistance of 1/4 $\Omega$ each is	A. 4/5 <span style='color: rgb(34, 34, 34); font-family: "Times New Roman"; font-size: 24px; text-align: center; background-color: rgb(255, 255, 248);'><b><math>\Omega</math></b></span> B. 5/4 <span style='color: rgb(34, 34, 34); font-family: "Times New Roman"; font-size: 24px; text-align: center; background-color: rgb(255, 255, 248);'><b><math>\Omega</math></b></span> C. 20 <span style='color: rgb(34, 34, 34); font-family: "Times New Roman"; font-size: 24px; text-align: center; background-color: rgb(255, 255, 248);'><b><math>\Omega</math></b></span> D. 0.05 <span style='color: rgb(34, 34, 34); font-family: "Times New Roman"; font-size: 24px; text-align: center; background-color: rgb(34, 34, 34); font-family: "Times New Roman"; font-size: 24px; text-align: center; background-color: rgb(255, 255, 248);'><b><math>\Omega</math></b></span>
12	One KWh is equal to:	A. 3.6 x 10 <sup>2</sup> J B. 3.6 KJ C. 3.6 x 10 <sup>1</sup> KJ D. 3.6 MJ
13	The measure of the deformation in a solid when stress is applied to its is called	A. elastic constant B. young's modulus C. strain D. elasticity
14	A field in which the work done is moving a body along closed path is zero is called:	A. Nuclear filed B. Conservative field C. Gravitational field D. Non-conservative field
15	The nature of capacity of electrostatic capacitor depends on	A. Shape B. Size C. Thickness of plates D. Area
16	Ultraviolet region lies in series	A. Layman B. Balmer C. P fund D. B racket
17	The velocity given to a body to go out of the influence of earth's gravity is known as:	A. Terminal velocity B. Orbital velocity C. Escape velocity D. None of these
18	Two metal rods A and B have their initial lengths in the ratio $2:3$ and coefficients of linear expansion in the ratio $4:3$ . When they are heated through same temperature difference the ratio of their linear expansion is	A. 1:2 B. 2:3 C. 3:4 D. 8:9
19	A two Kg block is held 1 m above the floor for 50 seconds, the work done is:	A. Zero B. 10.2 J C. 100 J D. 980 J
		A. spontaneously