

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

Sr	Questions	Answers Choice
1	A second's pendulum is a pendulum whose time period is	A. 1 second B. 2 seconds C. 3 seconds D. 4 seconds
2	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
3	In the region surrounding a current carrying wire:	A. <span style='font-family: "Times New Roman", serif; font-size: 12pt; text-align: justify;'>A magnetic field is setup</span> <span style='font-size:12.0pt; line-height:107%; font-family: "Times New Roman", "serif"'><o:p></o:p></span> B. <span style='font-size:12.0pt; line-height:107%; font-family: " Times New Roman", " serif" '>The lines of force are elliptical<o:p></o:p></span> C. <span style='font-size:12.0pt; line-height:107%; font-family: " serif" '>The lines of force are elliptical<o:p></o:p></span> C. <span style='font-size:12.0pt; line-height:107%; font-family: " Times New Roman", " serif" '>Direction of lines of forces depends upon direction of current<o:p></o:p></span> D. <span style='font-size: 12pt; line-height: 107%; font-family: " Times New Roman", serif; '>Both (A) and (C)<b><o:p> E. All of these</o:p></b></span>
4	The rain drop falling from the sky reach the ground with	A. Constant terminal velocity     B. Constant gravitational acceleration     C. Variable acceleration     D. acceleration greater than g
5	The wave form of SHM is	A. Pulsed wave B. Square wave C. Triangular waved D. Sine wave
6	A body of mass 5 kg is acted upon by a constant force of 20 n for 7 seconds. The total change in momentum will be:	A. 10 NS B. 100 NS C. 140 NS D. 200 NS
7	The error may occur due to:	A. Negligence B. Faulty apparatus C. Inappropriate method D. all of these
8	Uncertainty is of following type/types:	A. Absolute B. Fractional C. Percentage D. All of these
9	The value of the Stephen's constant for black body radiations is given by	A. 5.6 x 10 <sup>8</sup> Wm <sup>-2</sup> K <sup>-4</sup> B. 5.67 x 10 <sup>-8</sup> Wm <sup>-2</sup> K <sup>-4</sup> C. 2.9 x 10 <sup>-3</sup> mK D. 2.9 x 10 <sup>3</sup> mK
		A. Electron

10	Particles have the mass smallest of following is:	B. Proton C. Neutron D. Quark
11	At the starting point of the free fall motion of an object, its acceleration will be	A. maximum B. minimum C. zero D. none of them
12	Such an inductor coil which does not consume energy and is often employed for controlling a.c. without consumption of energy is called	A. Choke B. impedance C. Semi-conductor D. None
13	Binding energy per nucleus is	A. greater for heavy nucleus     B. least for heavy nucleus     C. greatest for light nuclei     D. decreases for medium weight niclei
14	Sound waves in air always	A. Longitudinal B. Transverse C. Stationary D. Electromagnetic
15	Efficiency of carnot engine is independent of the	A. temperature of sink B. temperature of source C. nature of the working substances D. none of them
16	To get a resultant displacement of 10 m, two displacement vectors of magnitude 6 m and 8 m should be combined	A. Parallel B. Antiparallel C. At angle 60 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°</span> D. Perpendicular to each other
17	The total work done in moving the body up and then down through the same height in a gravitational field is equal to:	A. mgh B. Its wight C. Weight X height D. Zero
18	A rotating body tends to be slower, when its angular acceleration is:	A. Positive B. Negative C. Zero D. Infinity
19	Battery is charged in motor cars, which is based on	A. Chemical effect B. Magnetic effect C. Electric effect D. None
20	Compton shift refers to:	A. Photon B. Meson C. Proton D. Positron E. Both (B) and (D)