Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The restoring force is always directed towards:	A. Rest position B. Equilibrium position C. Mean position D. All of them
2	Work is a:	A. Scalar quantity B. Vector quantity C. Base quantity D. None of these
3	The whole shape of the black body spectrum for all wavelengths was explained by the formula proposed by	A. Max plank B. Newton C. Einstein D. J.J. Thomson
4	Time period of simple pendulum is independent of	A. length B. mass C. acceleration due to gravity D. none of them
5	The mass of the object is a quantities measure of its	A. speed B. velocity C. acceleration D. inertia
6	Which of the following waves are more energetic	A. radio waves B. infrared waves C. ultraviolet D. γ-rays
7	Radiation detector are used to	A. measure intensity of radiation B. measure energy of radiation C. difference between different types of radiation D. all the above
8	A field free region is found:	A. <span style="font-size:12.0pt;line-height:107%;font-family: "Times New Roman","serif";mso-fareast-font-family:"Times New Roman";mso-fareast-theme-font: minor-fareast">Near the outer surface of a hollow charged metal sphere<o:p></o:p> B. <span style="font-size:12.0pt;line-height:107%;font-family: "Times New Roman","serif";mso-fareast-font-family:"Times New Roman";mso-fareast-theme-font: minor-fareast">In the interior of solid metal uncharged sphere<o:p></o:p> C. <span style="font-size:12.0pt;line-height:107%;font-family: "Times New Roman","serif";mso-fareast-font-family:"Times New Roman";mso-fareast-theme-font: minor-fareast">In the interior of solid metal charged sphere<o:p></o:p> D. <span style="font-size:12.0pt;line-height:107%;font-family: "Times New Roman","serif";mso-fareast-font-family:"Times New Roman";mso-fareast-theme-font: minor-fareast">Both (A) and (B)<o:p></o:p> E. <span style="font-size:12.0pt;line-height:107%;font-family: "Times New

		Roman","serif";mso-fareast-font-family:"Times New Roman";mso-fareast-theme-font:minor-fareast">Both (A) and (C)<o:p></o:p>
9	The resistance of a conductor does not depend on its	A. mass B. resistivity C. length D. cross-sectional area
10	Which one of the following causes production of heat when current is set up in a wire?	A. Fall of electrons from higher orbits to lower orbits B. Inter-atomic collisions C. Inter-electron collisions D. Collisions of conduction electron with atoms
11	If the resistance of 2 ohm and 4 ohm are connected in parallel, the equivalent resistance will be	A. 6 ohm B. 4 ohm C. zero ohm D. 1.33 ohm
12	The current that flows through the coil of a motor causes:	A. Its shaft to revolve<o:p></o:p> B. Its brushes to rotate<o:p></o:p> C. Motor to move<o:p></o:p> D. Its shafts to rotate<o:p></o:p> E. None of these<o:p></o:p>
13	For transmission of both transverse and longitudinal waves, we can use:	A. Solid B. Gas C. Plasma D. None of these
14	Which force is not a conservative force:	A. Frictional force B. Gravitational force C. Electric force D. Elastic spring force
15	When brakes are applied to a fast moving car, the passenger will be thrown:	A. Forward B. Backward C. Downward D. none of these
16	The waveform of alternating voltage is a:	A. Square B. Rectangular C. Saw-tooth D. Sinusoidal E. None of these
17	The number of LED'S needed to display all the digits is:	A. Four B. Five C. Nine D. Six E. Seven
18	A line which represents the direction of travel of a wave is known as:	A. Spherical Wavefront B. Locus C. Ray D. Either B or C
		A. <span style="font-size:12.0pt; line-height:107%;font-

19	In the formula $B = \mu_s nI$, the symbol n denotes:	family:"Times New Roman","serif"">Total number of turns of solenoid<o:p></o:p> B. Number of turns per unit length<o:p></o:p> C. Number of turns per unit volume<o:p></o:p> D. Numbers of turns per unit area<o:p></o:p> E. Number of moles<o:p></o:p>
20	Work done along a closed path in a gravitational field is:	A. Maximum B. Minimum C. Zero D. Unity