Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	On colliding in a closed container, the gas molecules	A. Transfer momentum to the walls B. Momentum becomes zero C. Move in opposite directions D. Perform Brownian motion
2	Max plank founded a mathematical model resulting in an equation that describes the shape of observed black body radiation curves exactly, in	A. 1890 B. 1895 C. 1900 D. 1905
3	If a gymnast is sitting on a rotating stool with his arms outstretched, brings his arms towards the chest, then its angular velocity will:	A. Increase B. Decrease C. Remains constant D. None of these
4	Longitudinal waves are also called:	A. Congressional waves B. Transverse waves C. Radio waves D. None of them
5	magnetic field is a:	A. <p class="MsoNormal" style="text-align:justify">Vector quantity<o:p></o:p></p> B. <p class="MsoNormal" style="text-align:justify">Scalar quantity<o:p></o:p></p> C. <p class="MsoNormal" style="text-align:justify">Scalar as well as scalar quantity<o:p></o:p></p> D. <p class="MsoNormal" style="text-align:justify">Any of (A) or (B)<o:p></o:p></p> E. Neither (A) nor (B)
6	INTELSAT operates at frequencies 4, 6, 11, 14 having unit of	A. KHz B. MHz C. GHz D. BHz
7	The current of 1 ampere is passing through a conductor. The charge passing through it in half a minute is:	A. <p class="MsoNormal" style="text-align:justify">One coulomb<o:p></o:p></p> B. <p class="MsoNormal" style="text-align:justify">0.5 coulomb<o:p></o:p></p> C. <p class="MsoNormal" style="text-align:justify">30 coulomb<o:p></o:p></p> D. <p class="MsoNormal" style="text-align:justify">2 coulombs<o:p></o:p></p> E. <p class="MsoNormal" style="text-align:justify">None of these<o:p></o:p></p>
8		A. In quarter cycle is called Instantaneous value B. In half cycle is called peak-to-peak value

8	The highest value reached by the voltage or current:	C. In one cycle is called peak value D. In half cycle is called Instantaneous value E. None of these
9	One complete round trip of the body about its mean position is called	A. displacement B. vibration C. a complete motion D. an acceleration
10	The temperature of gas is produced by	A. At potential energy of its molecules B. The kinetic energy of its molecules C. The attractive force between its molecules D. The repulsive force between its molecules
11	The effect of applying a force on a moving body is to change	A. its direction of motion only B. its speed of motion only C. both the direction and speed of motion D. its inertia only
12	Flux through a closed surface of any shape and flux through the surface of a sphere drawn around a charge are:	A. Different<o:p></o:p> B. Same<o:p></o:p> C. Such that it is greater in the first case<o:p></o:p> D. Such that it is greater in the second case<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">None of these<o:p></o:p>
13	When a dielectric material is introduced between the plates of a charged condenser the electric field between the plates	A. Decreases B. Increases C. No change D. May increase or decrease
14	Which of the following diode is used to derive the current in external circuit when light is incident in the circuit	A. photo diode B. light emitting diode C. photo voltaic cell D. none of these
15	At the present time, the main frontiers of fundamental science are	A. 2 B. 3 C. 4 D. 5
16	If a train traveling at 72 kmph is to be brought to rest in a distance of 200 meters then its retardation should be	A. 20 ms⁻² B. 10 ms⁻² C. 2 ms⁻² D. 1 ms⁻²
17	The crystalline structure of NaCl is	A. rectangular B. hexagonal C. tetrahedral D. cubical
18	At any point on the right bisector of the line joining two equal and opposite charges	A. At electric field is zero B. The electric potential is zero C. The electric potential decreases with increasing distance from the centre D. The electric field is perpendicular to the line joining the charges
19	On a cold morning a metal surface will fell colder to touch than a wooden surface, because	A. Metal has high specific heat B. Metal has high thermal conductivity C. Metal has low specific heat D. Metal has low thermal conductivity
20	If a gymnast sitting on a rotating stool with his arms outstretched, brings his arms towards the chest, then its angular velocity will	A. Increase B. Decrease C. Remain constant D. None of these