Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The unit of decay constant is	A. sex B. sec² C. sec⁻¹ D. sec⁻²
2	A transformer has 100 turns on the imput side 500 turns on the output side. If rms value of input voltage are 220 V and 5A respectively. The output power is?	A. 500 watt B. 50 watt C. 1100 watt D. 1440 watt
3	Flurescent screen is a screen where visible spot	A. vanishes B. is made C. becomes small and large D. none of these
4	Balmer series was identified in:	A. 1685 B. 1785 C. 1885 D. 1985 E. 1585
5	Huygen's principle states that	A. Light travels in straight line B. Light has dual nature C. Either of these D. None of these
6	The behaviour of gases is well accounted by the kinetic theory based on	A. microscopic approach B. macroscopic approach C. both of them D. none of them
7	Most practical applications of electricity involve	A. Charges at rest B. Charges in motion C. Electrons at rest D. Atoms in motion E. Molecules in motion
8	A snooker ball moving with velocity V collides head on with another snooker ball of same mass at rest. If the collision is elastic, the velocity of second snooker ball is	A. Zero B. Infinity C. V D. 2 V
9	A stone is tied to the end of a 20 cm along string is whirled in a horizontal circle. if centripetal acceleration is 9.8 m/sec^2, then its angular velocity in rad/sec is:	A. 22/7 B. 7 C. 14 D. 21
10	Internal friction of fluid is called	A. Surface tension B. Viscosity C. Resistance D. Cohesive force
11	The square of 0.4 is:	A. Greater than 0.4 B. Smaller than 0.4 C. Equal to 0.4 D. None of them
12	In case of metallic conductors, the charge carriers are	A. Protons B. Electrons C. Antiprotons D. Positrons E. Both A and B
		A. Zero<o:p></o:p> B. Much larger<o:p></o:p> C. <p class="MsoNormal" style="text-

13	The effects of bends in a wire on its electrical resistance are:	align:justify"><span style="font-size:12.0pt; line-height:107%;font-family:"Times New Roman","serif"">Larger<o:p> </o:p> D. <p class="MsoNormal" style="text- align:justify"><span style="font-size:12.0pt; line-height:107%;font-family:"Times New Roman","serif"">Smaller<o:p> </o:p> E. <p class="MsoNormal" style="text- align:justify"><span style="font-size:12.0pt; line-height:107%;font-family:"Times New Roman","serif"">None of these<o:p></o:p>
14	If the time period a simple pendulum is 2 s, its frequency would be	A. 2 Hz B. 1.5 Hz C. 1.0 Hz D. 0.5 Hz
15	The half life of radioactive substances depends upon	A. amount of substance B. energy of substance C. state of substance D. temperature of substance
16	Electric field lines emerge from the charge in:	A. <span style="font- size:12.0pt;line-height:107%;font-family: "Times New Roman","serif"">One dimension<o:p></o:p> B. <span style="font- size:12.0pt;line-height:107%;font-family: "Times New Roman","serif"">Two dimensions<o:p></o:p> C. <span style="font- size: 12pt; line-height: 107%; font-family: "Times New Roman", serif;">Three dimensions<o:p></o:p> D. <span style="font- size:12.0pt;line-height:107%;font-family: "Times New Roman","serif"">Four dimensions<o:p></o:p> E. <span style="font- size:12.0pt;line-height:107%;font-family: "Times New Roman","serif"">None of them<o:p></o:p>
17	The intensity at a point due to a charge is inversely proportional to	A. Amount of charge B. Size of the charge C. Distance between charge and the point D. Square of the distance from the charge E. None of these
18	Escape velocity from surface of Moon as compared to that from Earth surface is:	A. Greater B. Smaller C. Equal D. None of thes
19	The use of chips in electrons is described in the form of:	A. Yellow boxes B. Black boxes C. Red boxes D. White boxes E. Orange boxes
20	The CRO deflects the beam of electrons, when they passes through uniform	A. electric field B. gravitational field C. magnetic flax D. magnetic field