

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Compton studied the scattering of x-rays by loosely bound electrons from:	A. NaCl crystal B. Graphite crystal C. Zirconia D. Copper crystal E. None of these
2	The charge carriers in an electrolyte are	A. Positive ions B. Negative ions C. Either A or B D. Both A and B E. Neither A nor B
3	A uniform bar AE of weight 9 N is held horizontal by vertical forces. Two additional force act A and D as shown in figure. The points A,B,C,D and E are at equal intervals along the bar. At which point must vertical force of 6 N act to keep bar in equilibrium.	A. Point D B. Point E C. Point C D. Point B
4	In an adiabatic expansion, the temperature of the gas	A. increases B. becomes zero C. decreases D. decreases rapidly
5	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
6	The graph showing the variation of displacement with time is a:	A. Sine curve B. Straight line C. Parabola D. None of these
7	When two spherical conducting balls at different potentials are joined by a metallic wire, after some time:	A. Both the conductors are at the same potential<o:p:< p=""> </o:p:<> B. Potentiadifference across the conductors remain constant<o:p></o:p> C. <span "="" "="" font-family:"="" font-size:12.0pt;="" line-height:107%;="" new="" roman"="" serif"="" style='font-size:12.0pt; line-height:107%; font-family:" across the conductors remain constant<o:p></o:p> C. Potentiadifference across the conductors becomes zero<o:p></o:p> D. Both (A) and (B)<o:p></o:p> E. Both (A) and (C)<o:p></o:p>
8	The unit of flux density is also given by	A. Weber/m ² or Wb . m ⁻² B. Weber/mor Wb . m C. Weber/mor Wb . m ⁻¹ D. Weber or Wb
9	In n-p-n transistor, emitter base junction is kept	A. reversed B. forward biased C. may be reversed or may be forward

		biased D. none of these
10	Huygen's principles states that:	A. Light has dual nature B. Either of these C. None of these D. Light travels in straigth line
11	An alpha particle has a charge of	A. +2e B2e Ce D. +3e
12	The working of galvanometer depends upon torque exerted on a current carrying coil in	A. magnetic field B. electric field C. gravitational field D. nuclear field
13	Huygen principle is used to determine	A. Speed of light B. Location of wavefront C. About polarized and unpolarized light D. None of them
14	Substances which break just after the elastic limit is reached, are known as	A. brittle substances B. ductile substances C. plastic substances D. elastic substances
15	When charged particle is projected perpendicular to a uniform magnetic field its trajectory is	A. circular B. elliptical C. cycloid D. straight line
16	Find the total displacement of a body in 8 seconds starting from rest with an acceleration of 20 $\mbox{cm/s}^2$	A. 0.064 m B. 640 cm C. 64 cm D. 64 m
17	Electric generators which convert mechanical energy into	A. solar energy B. thermal energy C. kinetic energy D. electrical energy
18	A certain force gives an acceleration of 2 m/sec ² to a body mass 5 kg. The same force would give a 20 kg object an acceleration of:	A. 0.5 m/sec ² B. 5 m/sec ² C. 1.5 m/sec ² D. 9.8 m/sec ²
19	When we consider the average velocity of a body, then the body is moving in	A. straight line B. curved path C. may be in a straight or curved path D. none of them
20	Ultraviolet region lies in series	A. Layman B. Balmer C. P fund D. B racket