Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	In a normally biased n-p-n transistor, an electron c current I_E flows from the	A. emitter into the base B. collector into the base C. base into collector D. none of these
2	The efficiency of carnot engine cannot be 100% or one unless cold reservoir is at	A. 100 K B. 273 K C. 0 K D. -273 K
3	Which one of the following physical quantities changes with relativistic speed	A. Length B. Mass C. Time D. All of the above
4	Alternating current can not be measured by D.C. ammeter because	A. A.C. can not pass through D.C. Ammeter B. A.C. changes direction C. Average value of current for complete cycle is zero D. D.C. Ammeter will get damaged
5	The positron was discovered by:	A. In cosmic radiation B. In 1932 C. By Carl Anderson D. All above E. By direc
6	Branch of physics which deals with the study of stars and galaxies is called:	A. Solid state physics B. Astrophysics C. Molecular physics D. Chemical physics
7	In the formula R = N x m for diffraction grating, N denotes:	A. No. of lines/cm B. No. of lines/meter C. Total number of lines D. None of above
8	Work is a:	A. Scalar quantity B. Vector quantity C. Base quantity D. None of these
9	In 1932 Chadwick discovered	A. proton B. neutron C. photon D. electron
10	The example of irreversible process is	A. slowly liquification B. slowly evaporation C. an explosion D. all of them
11	Bodies failing freely under gravity provide good example of motion under	A. non-uniform acceleration B. uniform acceleration C. variable acceleration D. increasing acceleration
12	Rate of change of momentum is called	A. Impulse B. Force C. Torque D. Momentum
13	A typical four stroke petrol engine undergoes how many successive processes in each cycle	A. one B. two C. three D. four
14	If the value of galvanometer constant k = C/BAN is made small, the galvanometer can be made	A. Sensitive B. Accurate C. Stable D. None of these
		A. No work is done on it

15	When a body moves with a constant speed in a circle:	B. No acceleration is produced in the body C. Velocity remains constant D. None of these
16	SI Unit of work is	A. Nm⁻¹ B. Joule C. Nms D. Both a and b
17	Energy is dissipated and consequently the energy mass system do not oscillate indefinitely because of	A. very small energy B. very large energy C. frictional forces D. acceleration due to gravity
18	All trigonometric functions (sine, cosine, tangent etc) are positive in:	A. 1st quadrant B. 2nd quadrant C. 3rd quadrant D. 4th quadrant
19	An object in SHM will have maximum speed when its displacement from equilibrium position is:	A. Infinity B. Maximum C. Zero D. Minimum
20	In the doping process, the ratio of the doping atoms to the semi conductor atom is	A. 1 to 10 B. 1 to 10³ C. 1 to 10⁶ D. 1 to 10⁹