

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Which one of the following is an example of resonance	A. swing B. tuning a radio C. microwave oven D. all of them
2	The vibrations of factory floor caused by the running of heavy machinery is an example of	A. free vibration B. natural vibrations C. forced vibrations D. all of them
3	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
4	Slope of velocity time graph represents:	A. Acceleration B. Speed C. Torque D. Work
5	The r.m.s value of a.c. current is always	A. positive B. negative C. zero D. all of these
6	The bonding between the semi-conductor materials is	A. covalent B. ionic C. either of them D. none of them
7	Linear momentum is a	A. fixed quantity B. constant quantity C. scalar quantity D. vector quantity
8	The value of the input resistance of OP-AMP is of the order of	A. few ohms B. few hundred ohms C. several kilo ohms D. several mega ohms
9	Which one of the following is the unit of electric field intensity	A. JC^{-1} B. Vm^{-1} C. Cm^{-1} D. CJ^{-1}
10	Boyle's law is applicable in	A. Isochoric process B. Isothermal process C. Isobaric process D. Isotonic process
11	For the virtual image, option _____ is not correct:	A. $1/p = 1/f - 1/q$ B. $1/f = 1/p - 1/q$ C. $1/p = 1/f - 1/q$ D. $1/p = 1/f + 1/q$
12	A ball is dropped from a height of 4.2 meters. To what height will take it rise if there is no loss of KE after rebounding?	A. 4.2 m B. 8.4 m C. 12.6 m D. none of these
13	In an interference pattern of Young's Double Slit (YDS) experiment	A. Bright fringes are wider than dark fringes B. Dark fringes are wider than bright fringes C. Both dark and bright fringes are of equal width D. Central fringes are wider than the outer fringes
14	On the power stroke, a spark fires the mixtures causing a rapid increase in pressure and temperature and the burning mixture expands	A. adiabatically B. isothermally C. isochorically D. isobarically

15 The vertical component of velocity of a projectile during its motion is minimum
A. at the time of projection
B. at the highest point
C. just before hitting the plane of projection
D. all of them

16 Energy is stored in the choke coil in the form of
A. Heat
B. Magnetic energy
C. Electric energy
D. Electro-magnetic energy

17 The velocity given to a body to go out of the influence of earth's gravity is known as:
A. Terminal velocity
B. Orbital velocity
C. Escape velocity
D. None of these

18 If water in a closed bottle is taken up to the moon and opened, the water gets
A. Freeze
B. Boiled
C. Dissociated into O₂ and H₂
D. Evaporated

19 Glass is an example of
A. crystalline solid
B. amorphous solid
C. polymeric solid
D. none of them

20 A condenser of capacity 50 μ F is charged to 10 V. The energy stored is
A. 1.25×10^{-3} J
B. 3.75×10^{-3} J
C. 2.5×10^{-3} J
D. 5×10^{-3} J