

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The impedance of RLC series resonance circuit at resonant frequency is	A. Greater than R B. Equal to R C. Less than R D. None of these
2	A boy pulls a toy car through a distance of 5 m by applying a force of 0.5 N, Which makes an angle of 60° with the horizontal. The work done by the boy is:	A. 1.25 J B. 12.5 J C. 125 J D. None of these
3	Si units of time period is	A. second B. hertz C. revolution D. vibration/sec
4	Dimensions of velocity are	A. [L] B. [T] C. [LT ⁻¹] D. [LT ⁻²]
5	A body of mass 0.031 kg attached to one end of a spring of spring constant 0.3 N/m, then time period of spring mass system will be:	A. 1.5 sec B. 2.0 sec C. 2.3 sec D. 2.5 sec
6	If the length of the conductor is double and its cross sectional area is halved, its conductance will	A. Increase four fold B. Become one-fourth C. Become one-half D. Remains unchanged
7	In crystalline solids, atoms are held about their equilibrium positions depending upon the strength of:	A. Adhesive force B. Nuclear forces C. Inter atomic cohesive force D. Electromagnetic force E. None of these
8	In the above figures, tell which set is graphs shows that a body is moving uniform velocity:	A. (i) and (ii) B. (ii) and (iii) C. (i) and (iii) D. (ii) and (iv)
9	The smooth or steady streamline flow is known as	A. laminar flow B. turbulent flow C. both of them D. none of them
10	Momentum is a parameter associated with	A. wave motion B. particle motion C. neither wave nor particle motion D. none of these
11	The range of particle depends upon the factor	A. charge, mass and energy of particle B. density of medium C. ionization potential of the atoms D. all the above
12	Absolute motion cannot be detected	A. in its own frame of references B. in a different frame of references C. both in its frame and different frame of references D. none of these
13	The magnifier forms a virtual image of the object at:	A. None of these B. Least distance of distinct vision C. Much farther than the least distance D. Both A and B are correct
14	Avo-meter is used of measure the	A. current, voltage B. voltage, resistance C. resistance, current D. current, voltage and resistance

15	Examples of moderators used in a fission reactor is/are:	<ul style="list-style-type: none"> A. Water B. Heavy water C. Carbon D. Hydrocarbon E. All of these
16	Physicist George Simon ohm was a	<ul style="list-style-type: none"> A. German physical B. French physicist C. Chinese physicist D. Russian physicist
17	In magnet-coil experiment, emf can be produced by:	<ul style="list-style-type: none"> A. Keeping the coil stationary and moving the magnet B. Keeping the magnet stationary and moving the coil C. Relative motion of the loop and magnet D. Any one of above E. All above
18	A magnetic force on an electron travelling with 10^8ms^{-1} parallel to a field of strength 1 Wb m^{-2} is	<ul style="list-style-type: none"> A. Zero B. 10^{15}N C. 10^{-10}N D. 10^8N
19	One radian is:	<ul style="list-style-type: none"> A. Greater than one degree B. Less than one degree C. Equal to one degree D. None of them
20	The study of fluid in motion basically involves law of conservation of:	<ul style="list-style-type: none"> A. Mass B. Energy C. Change D. Both A and C E. Both A and B