

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The product of force and time is called	A. acceleration B. linear momentum C. angular momentum D. impulse
2	The phase determines the	A. displacement B. amplitude C. frequency D. state of motion of vibrating body
3	A 120 m long train is moving in a direction with speed 20 m/s. A train B moving with 30 m/s in the opposite direction and 130 m long crosses the first train in a time	A. 6 s B. 36 s C. 38 s D. None of these
4	The results of spectra obtained by Balmer were expressed in 1896 by:	A. <div>Bohr</div> B. Rydberg C. Planck D. Rutherford E. Coulomb
5	In a surface tension experiment with a capillary tube water rises up to 0.1 m. if the same experiment is repeated on an artificial satellite, which is resolving around the earth, water will rise in the capillary tube up to a height of	A. 0.1 m B. 0.2 m C. 0.98 m D. Full length of the capillary tube
6	An emf is set up in a conductor when it:	A. Is kept in a magnetic field B. Is kept in an electric field C. Moves across a magnetic field D. Both A and B E. None of these
7	Resistance of a conductor depends upon	A. the quantity of current passing through it B. the voltage applied between its end C. its dimensions, physical state and nature of its material D. all of the above
8	Static electricity is produced by the transfer of:	A. Electrons B. Protons C. One fluid D. Two fluid E. None of these
9	A second's pendulum is a pendulum whose time period is	A. 1 second B. 2 seconds C. 3 seconds D. 4 seconds
10	The resistance offered by a fluid to a solid moving inside it is called:	A. Drag force B. Surface force C. Viscosity D. None of these
11	The charge carriers in electrolyte are positive and negative	A. protons B. electrons C. ions D. none of these
12	The SI unit of conductivity is	A. ohm-m B. ohm ⁻¹ 1 C. ohm-m ⁻¹ D. ohm ⁻¹ m
13	Formula for calculating moment of inertia of the bodies of one pair is same. Tick the answer.	A. Disc, sphere B. sphere, hoop C. Thin rod, hoop D. Hoop,disc
14	dimensions are the same for:	A. Work and energy B. Force and weight C. None of these

	A. USA and England
15 Micheal Faraday and joseph Henry belong respectively to:	B. England and France C. England and USA D. USA and France E. None of these
A constant current of 1 ampere flow in an electrical component over a period of 5 sec The total charge flowing through the component over this duration is.	A. 5 coulombs conds. B. 15 coulombs C. 10 coulombs D. 20 coulombs
17 Binding energy per nucleus is	A. greater for heavy nucleus B. least for heavy nucleus C. greatest for light nuclei D. decreases for medium weight niclei
18 Direction of motion in circular of motion:	A. Changes off and on B. Changes continuously C. Does not change D. None of them
If a system undergoes a natural process it will go in the direction that causes the entr the system plus the environment to increase, this is another statement of	A. second law thermodynamics B. first law of thermodynamics C. third law of thermodynamics D. none of them
The force between two chares 0.06 m apart is 5 N. If each charge is moved towards to other by 0.01 m, then the force between them will become	A. 7.20 N he B. 11.25 N C. 22.50 N D. 45.00