

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The Space around the Earth within which it exerts a force of attraction on other bodies is known as	A. Nuclear field B. Conservative field C. Electric field D. Gravitational field
2	The nuclei of an element having the same charge number but different mass numbers are called:	A. Isobars B. Isotopes C. Isomers D. Isobaric E. Isothermal
3	The concept of electric field theory was introduced by	A. Michael Faraday B. Newton C. Dalton D. Kepler E. Einstein
4	Surface tension of water is due to	A. Inter molecular attractions B. Inter molecular spaces C. Inter molecular repulsion D. None of above
5	The time period of pendulums of different lengths would be	A. same B. different C. both of them D. none of them
6	An induced current can be produced by:	A. Constant magnetic field B. Changing magnetic field C. Varying magnetic feild D. Constant electric field E. None of these
7	Due to relative motion of observer and the frame of reference of events, time always:	A. Dilates itself B. Contracts itself C. Stretches itself D. Both (A) and (C) E. None of these
8	The error may occur due to:	A. Negligence B. Faulty apparatus C. Inappropriate method D. all of these
9	The number of all the protons and neutrons in a nucleus is known as	A. atomic number B. mass number C. charge number D. none of these
10	The center of mass of a sphere lies at:	A. The axis of the sphere B. Circumference of sphere C. Center of the sphere D. None of them
11	Lenz's law is the consequence of	A. Mass B. Energy conservation C. Momentum conservation D. Charge
12	The idea of quantization of energy was proposed by:	A. Einstein B. Max Planck C. Maxwell D. Bohr E. Rutherford
13	If force and displacement are in opposite direction, the work done is taken as:	A. Positive work B. Negative work C. Zero work D. Infinte work

14	The rectangular components of a vector are equal in magnitude when the vector makes an angle _____ with their x-component:	<p>background-size: initial; background-repeat: initial; background-attachment: initial; background-origin: initial; background-clip: initial;"></p> <p>B. 30</p> <p>C. 45</p> <p>D. 60</p>
15	When a dielectric material is introduced between the plates of a charged condenser the electric field between the plates	<p>A. Decreases</p> <p>B. Increases</p> <p>C. No change</p> <p>D. May increase or decrease</p>
16	The angle which specifies the instantaneous value of the alternating voltage or current is called	<p>A. phase</p> <p>B. critical angle</p> <p>C. angle of incidence</p> <p>D. all of these</p>
17	In free space, the speed of electromagnetic waves is	<p>A. $3 \times 10^8 \text{ ms}^{-1}$</p> <p>B. $3 \times 10^6 \text{ ms}^{-1}$</p> <p>C. $4 \times 10^7 \text{ ms}^{-1}$</p> <p>D. $3 \times 10^9 \text{ ms}^{-1}$</p>
18	The resistivity of a substance depends upon the	<p>A. length</p> <p>B. mass</p> <p>C. area</p> <p>D. temperature</p>
19	A device used to measure the speed of liquid flow is known as	<p>A. barometer</p> <p>B. speedometer</p> <p>C. sphygmomanometer</p> <p>D. venturimeter</p>
20	With the increase of temperature viscosity	<p>A. Increase</p> <p>B. Decrease</p> <p>C. Remains same</p> <p>D. Doubles</p>