

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Electric lines of force	A. Intersect each other B. Are always parallel C. Are always anti-parallel D. Never intersect E. None of these
2	A spring of constant $k = 0.4 \text{ N m}^{-1}$ is to be extended through 10 cm at a place where $g = 10 \text{ m sec}^{-2}$. The mass to be suspended should be:	A. 4 gms B. 0.4 gm C. 40 gms D. None of these
3	The portion of the water above its mean level forms a:	A. Crest B. Trough C. Both A and B D. None of these
4	The property of light which does not change with the nature of the medium is	A. Frequency B. Amplitude C. Wavelength D. None of these
5	An object in SHM will have maximum speed when its displacement from equilibrium position is:	A. Infinity B. Maximum C. Zero D. Minimum
6	Graphs which are used to illustrate the variation of velocity of an object with time are called	A. distance time graphs B. speed time graphs C. velocity time graphs D. acceleration time graphs
7	Which one the following gives three regions of electromagnetic spectrum in order of increasing wavelength?	A. Gamma rays, micro waves, visible light B. Radio waves, ultraviolet waves, X-rays C. Ultraviolet rays, infrared rays, micro waves D. Visible light, gamma rays, radio waves
8	The curve representing an isothermal process is called	A. adiabat B. isotherm C. fixed temperature D. none of them
9	If current through conductor is 1 A and length of conductor is 1m placed at right angle to the magnetic field, then the strength of magnetic field is	A. $F = B^2$ B. $F = 0$ C. $F = B$ D. $F = B/2$
10	Which one is not produced by sound waves in air?	A. Polarization B. Diffraction C. Refraction D. Reflection
11	The unit of magnetic flux is	A. Weber- m^2 B. Weber- m^3 C. Henry D. Weber
12	As the current flows through the wire	A. It generates heat in the wire B. It produces sound in the wire C. Resistance of the wire decrease D. Voltage across the ends is the increase E. None of these
13	The consumption of energy by a 60 W bulb in 2 minutes is:	A. 2 watt-hour B. 120 watt-hour C. 30 watt-hour D. None of these
14	How much force is required to slide one layer of the liquid over the other layer is measured by	A. friction B. density C. viscosity D. ...

15	A pair of quark and antiquark makes a:	<p>A. Meson B. Baryon C. Proton D. Neutron E. None of these</p>
16	The current of 1 ampere is passing through a conductor. The charge passing through it in half a minute is:	<p>A. 1 coulomb B. 0.5 coulomb C. 30 coulomb D. 2 coulombs E. None of these</p>
17	A water hose with an internal diameter of 20 mm at the outlet discharges 30 kg of water in 60 s. What is water speed at the outlet if density of water is 1000 kg/m^3 during its steady flow	<p>A. 1.3 m/s B. 1.6 m/s C. 1.9 m/s D. 2.2 m/s</p>
18	The velocity given to a body to go out of the influence of earth's gravity is known as:	<p>A. Terminal velocity B. Orbital velocity C. Escape velocity D. None of these</p>
19	If the velocity time graph is a straight line parallel to time-axis, then it means that:	<p>A. The body is moving with uniform velocity B. The body is moving with uniform acceleration C. The body is at rest D. None of above</p>
20	The branch of physics which is mainly concerned with the motion of bodies under the action of forces is called:	<p>A. Optics B. Mechanics C. Thermodynamics D. Astro physics</p>