

ECAT Pre General Science MCQ's Test For Physics Full Book

Sr	Questions	Answers Choice
1	In a capacitive circuit	<p>A. Current leads voltage by phase of $\pi/2$</p> <p>B. Voltage leads current by phase of $\pi/2$</p> <p>C. Current and voltage are in same phase</p> <p>D. Sometime current and sometime voltage leads</p>
2	AC voltage is passed through single diode rectifier, the output of the bridge rectifier is.	<p>A. Full wave DC voltage</p> <p>B. Double frequency AC Voltage</p> <p>C. Half wave DC voltage</p> <p>D. None</p>
3	Flight of rocket in the space is an example of	<p>A. Newton's first law</p> <p>B. Newton's third law</p> <p>C. Newton's second law</p> <p>D. all of them</p>
4	The direction of the linear momentum is the direction of	<p>A. speed</p> <p>B. velocity</p> <p>C. weight</p> <p>D. none of them</p>
5	Least distance of distinct vision of an old man possibly becomes:	<p>A. A little less than 25 cm</p> <p>B. A little more than 25 cm</p> <p>C. Much less than 25 cm</p> <p>D. None of these</p>
6	The number of LED'S needed to display all the digits is:	<p>A. Four</p> <p>B. Five</p> <p>C. Nine</p> <p>D. Six</p> <p>E. Seven</p>
7	When current passes through a solenoid coil, it behaves like a	<p>A. loop</p> <p>B. circle</p> <p>C. bar magnet</p> <p>D. none of these</p>
8	The best conductor is:	<p>A. Silver</p> <p>B. Copper</p> <p>C. Aluminium</p> <p>D. Both B and C</p> <p>E. None of them</p>
9	The force acting as one meter length of the conductor placed at right angle to the magnetic field, when one A current is passing through it, defines the	<p>A. magnetic flux</p> <p>B. magnetic induction</p> <p>C. magnetic field</p> <p>D. self inductance</p>
10	Two bodies of masses 1 kg and 5 kg are dropped gently from the top of a tower. At a point 20 cm from the ground both the bodies will have the same	<p>A. Momentum</p> <p>B. Kinetic energy</p> <p>C. Velocity</p> <p>D. Total energy</p>
11	The ultimate source of energy is:	<p>A. Sun</p> <p>B. Air</p> <p>C. Water</p> <p>D. Petroleum</p>

12	If we connected the ordinary DC ammeter to measure alternating current, it would measure its:	A. Instantaneous value B. RMS value C. Value averaged over a cycle D. Either (B) or (C) E. Either (A) or (C)
13	An alpha particle is accelerated through a potential difference of 10^6 volt. Its kinetic energy will be	A. 1 MeV B. 2 MeV C. 4 MeV D. 8 MeV
14	The SI unit of spring constant is identical with that of:	A. Force B. Surface tension C. Pressure D. Loudness
15	An isochoric process is one which take place at	A. Constant internal energy B. Constant entropy C. Constant volume D. Constant pressure
16	Which of the following medium/media can transmit both transverse and longitudinal waves:	A. Solids B. Liquids C. Gases D. All of them
17	The work done moving a body between two points in a conservation field is independent of the:	A. Direction B. Force applied C. Path followed by the body D. Power
18	Hydrogen atom with only one proton and one neutron in its nucleus, and one electron, is called	A. deuterium B. protium C. tritium D. none of these
19	The locus of all the points in the same phase of vibration is called:	A. Wave packet B. Wave front C. Wave number D. None of them
20	The branch of physics which concerned with the ultimate particles of which the universe is composed is known as	A. SolidState physics B. Particle Physics C. Nuclear Physics D. Atomic Physics