

Physics ECAT Pre Engineering MCQ's Test For Full Book

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Sr	Questions	Answers Choice
1	The distance covered by the wave during one period is called its:	A. Wave number B. Frequency C. Wavelength D. Time period
2	On the compression stroke of the petrol engine, the inlet value is closed and the mixture is compressed	A. adiabatically B. isothermally C. isochorcally D. isobarically
3	If the instantaneous velocity of a body does not change, the body is said to be moving with	A. average velocity B. uniform velocity C. instantaneous velocity D. variable velocity
4	Acceleration in a body is always produced in the directin of:	A. Velocity B. Weight C. Force D. Botha B and C
5	A typical rocket consists of fuel	A. more than 60% of launch mass B. less than 60% of launch mass C. less than 80% of launch mass D. more than 80% of launch mass
6	In the formula $B=\mu_0 n l$, the symbol n denotes:	A. Total number of turns of solenoid<o:p></o:p> B. Number of turns per unit length <o:p></o:p> C. <span "="" "="" font-family:"="" font-size:12.0pt;="" line-height:107%;="" new="" roman",="" serif"="" style='font-size: 12.0pt; line-height: 107%; font-family:" Times New Roman", " Serif" Number of turns per unit volume<o:p></o:p> D. Numbers of turns per unit area<o:p></o:p> E. Numbers of turns per unit area<o:p></o:p> E. Number of moles<o:p></o:p>
7	The way through which electromagnetic radiations or photons interact with matter depends upon their:	A. Wavelength B. Frequency C. Energy D. Temperature E. All of these
8	Light appears to travel in straight line because	A. It is not absorbed by the atmosphere B. It is refracted by the atmosphere C. Its wavelength is very small D. Its velocity is very large
9	The direction of lines of force depends upon the direction of	A. voltage B. current C. charges D. none of these

10	The waves which propagate by the collision of material particles are known as	A. e.m. waves B. mechanical waves C. light waves D. microwaves
11	The values 1 and 0 are designated as:	A. Continuous values B. Binary values C. Boolean values D. Decimal values E. Either (B) and (C)
12	Bodies failing freely under gravity provide good example of motion under	A. non-uniform acceleration B. uniform acceleration C. variable acceleration D. increasing acceleration
13	The quantity F x t is called as	A. momentum B. velocity C. acceleration D. impulse
14	Which of the following phenomenon proves the particle nature of light	A. interference B. diffraction C. photoelectric effect D. none of these
15	If a 40 watt light bulb burns for 2 hours. how much heat is generated	A. 288 x 10 ³ J B. 288 x 10 ⁸ J C. 288 x 10 ⁵ J D. 288 x 10 ⁵ J
16	When either L or C is increased, the resonant frequency of the RLC series circuit	A. Increases B. Decreases C. Remains the same D. Becomes zero
17	The wave form of SHM is	A. Pulsed wave B. Square wave C. Triangular waved D. Sine wave
18	The superposition of the two waves of same frequency and amplitude travelling in the same direction gives to an effect called	A. Diffraction B. Interference C. Polarization D. Dispersion
19	A gas is compressed adiabatically till its temperature is double. The ratio of its final volume to initial volume will be	A. 1/2 B. More than 1/2 C. Less than 1/2 D. Between 1 and 2
20	Polymers are the chemical combination of carbon with:	A. Nitrogen B. Oxygen C. Hydrogen D. All of these E. None of these