

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Which one of the following is an example of SHM	A. Motion in a plane B. Motion in a swing C. Motion in a car D. None of these
2	The current produced by moving a loop of wire across a magnetic field is called	A. Direct current B. Magnetic current C. Alternating current D. Induced current E. None of these
3	Experiments revealed that the ratio of the stress to the strain is a constant value for	A. different material B. all materials C. a given material D. all of them
4	The wave motion set up in any medium depends upon:	A. Elasticity B. Inertia C. Density D. All of these
5	1 amu is equal to	A. 1.66 x 10 ⁻²⁴ kg B. 1.66 x 10 ⁻¹⁹ kg C. 1.66 x 10 ⁻³⁴ kg D. 1.66 x 10 ⁻²⁷ kg
6	When sound waves travel from air to water which of these remains constant?	A. Velocity B. Frequency C. Wavelength D. All the above
7	The phase at the positive peak is	A. ГV2 B. ГК-/b> C. 3 ГV2 D. 2 FV2 D. 2 FI
8	The mass of a body measured by a physical balance in a lift at rest is found to be m, if the lift is going up with an acceleration a, its mass will be measured as	A. m (1 - a/g) B. m (1 + a/g) C. m D. Zero
9	The dimensions of work	A. [MLT ⁻¹] B. [MLT ⁻²] C. [ML ⁻² T ⁻²] D. [MLT]
10	The wave form of S.H.M will be	A. square wave B. sine wave C. rectified wave D. saw-tooth wave
11	The time interval during which the Voltage source changes its polarity once is known as:	A. Time period T B. Half the time period C. Quarter the time period D. Two third of the time period

		E. None of these
12	At the present time, the main frontiers of fundamental science are	A. 2 B. 3 C. 4 D. 5
13	In a transistor, collector current is controlled by	A. Collector voltage B. Base current C. Collector resistance D. All of the above
14	A thermistor with negative temperature co-efficient is placed in a furnace. When temperature of furnace increases the resistance?	A. Decrease B. Remain unchanged C. Increase D. None of above
15	A photon is considered to have	A. Momentum B. Energy C. Wavelength D. All of the above
16	A transformer has 100 turns on the imput side 500 turns on the output side. If rms value of input voltage are 220 V and 5A respectively. The output power is?	A. 500 watt B. 50 watt C. 1100 watt D. 1440 watt
17	Which of the following is not mechanical wave?	A. Sound wave B. Light wave C. <div>wave produced in spring</div> D. None of them
18	When a mass attached to a spring begins to move left or right from the equilibrium position, its P.E.:	A. Increases B. Decreases C. Remains constant D. None of these
19	The charged nucleus of an atom itself spins its magnetic field	A. equal to the field produced by orbital electrons B. greater than the field produced by orbital electrons C. much weaker than the field produced by orbital electrons D. none of these
20	When brakes are applied to a fast moving car, the passengers will be thrown:	A. Forward B. Backward C. Downward D. None of these