

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	A field in which the work done in moving a body along closed path is zero is called	A. Nuclear Field B. Conservative field C. Gravitational field D. Non-conservative field
2	Torque is also called:	A. Momentum B. Linear inertia C. Moment of a force D. Mass
3	The current produced by moving a loop of a wire across a magnetic field is called:	A. Direct current B. Magnetic current C. Alternating current D. Induced current E. None of these
4	When a stress changes the shape, it is called the	A. compressional stress B. tensile stress C. shear stress D. any one of them
5	If the formula $PV = nRT$, n denotes:	A. Number of molecules per unit volume B. Number of moles C. Number of molecules D. None of these
6	Efficiency of carnot engine is independent of the	A. temperature of sink B. temperature of source C. nature of the working substances D. none of them
7	The wave motion set up in any medium depends upon:	A. Elasticity B. Inertia C. Density D. All of these
8	Three quarks make:	A. An electron B. A meson C. A baryon D. A photon E. None of these
9	Second's pendulum is the pendulum whose time period is:	A. 1 second B. 2 second C. 3 second D. None of these
10	A 1000 Kg car travelling with a speed of 90 km/hr turns around a curve of radius 0.1 km. The necessary centripetal force comes out to be:	A. 8.1×10^7 B. 625 N C. 6250 N D. None of these
11	A toy car moves around a circular track of radius 0.3 m at the rate of 120 rev/min. The speed V of the car is:	A. 38 m/sec B. 3.8 m/sec C. 0.6 m/sec D. None of these
12	Density is defined as:	A. Mass per volume B. Volume per mass C. Mass X volume D. Mass per length
13	Electromagnetic radiation or photons interact with matter in	A. two distinct ways B. three distinct ways C. four distinct ways D. five distinct ways
14	Zirconia is classified as:	A. Ceramic solid B. Ionic compound C. Metal D. Either (A) or (B) E. Either (B) or (C)
15	If a car rest acceleration uniformly to a speed of 144 km/h in 20 s it covers a distance	A. 20 m B. 400 m

of

C. 1440 m
D. 2880 m

16 The example/s of non-electrical energy to electrical is/are:

A. Chemical energy
B. Mechanical energy
C. Heat energy
D. Both (A) and (B)
E. All of these

17 The transitions of electrons in the hydrogen atom result in the emission of spectral lines in the:

A. Ultra red region
B. Visible region
C. Ultraviolet region
D. Any of these
E. None of these

18 Ammeter is used to measure

A. voltage
B. resistance
C. voltage and current
D. current

19 The emitter-base junction of a transistor is forward-biased and collector-base junction is reverse-biased. If the base current is increased, its

A. I_c will decrease
B. V_{CE} will increase
C. I_C will increase
D. V_{CC} will increase

20 The crystalline structure of NaCl is

A. rectangular
B. hexagonal
C. tetrahedral
D. cubical