

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The SI unit of strain is	A. N B. Dynes C. Pascal D. Dimensionless
2	A device used to measure the speed of liquid flow is known as	A. barometer B. speedometer C. sphygmomanometer D. venture-meter
3	Hydrogen and helium of same volume V at same temperature T and same pressure P are mixed to have same volume V. The resulting pressure of the mixtures will be	A. $R/2$ B. P C. 2P D. Depending on the relative mass of the gases
4	A line which represents the direction of travel of a wave is known as:	A. Spherical Wavefront B. Locus C. Ray D. Either B or C
5	Resistor is a device which convert electric energy to	A. Heat energy B. Chemical energy C. Elastic energy D. All of the above
6	A thermistor is a resistor which is:	A. Light Sensitive B. Heat Sensitive C. Sound Sensitive D. All of these E. None of these
7	When brakes are applied to a fast moving car, the passengers will be thrown:	A. Forward B. Backward C. Downward D. None of these
8	Work done along a closed path in a gravitational field is:	A. Maximum B. Minimum C. Zero D. Unity
9	The chemical properties of an element depends upon the number of	A. electron B. position C. photons D. neutrons
10	If the object is situated at focus of a convex lens, then its image is formed at:	A. F B. 2F C. Infinity D. None of these
11	The peak value of alternating voltage is given by	
12	The circuit which is used to smooth the output voltage of the full-wave rectification is known as	A. transformer B. rectifier C. filter D. none of these
13	When the atomic particle are moving with velocities approaching that of light:	A. Newton's laws become valid B. Relativistic effects become prominent C. Both(A) and (B) are valid D. Neither (A)nor (B) E. There mass becomes zero.
14	If the number of turns of a solenoid (carrying a steady current I) is doubled without changing the length of a solenoid, then magnetic field:	A. Becomes Half B. Becomes double C. Is not affected D. Becomes one fourth E. None of these
15	Centripetal acceleration is also called	A. Tangential B. Radial

C. Angular
D. None of them

16 If a molecule with momentum mv strikes a wall and rebound then the change in momentum will be:

A. $-2mv$
B. Zero
C. $2mv$
D. mv

17 The horizontal range of projectile, at a certain place, depends upon

A. the mass of the projectile
B. velocity of projection
C. angle of projection
D. angle as well as velocity of projection

18 Wave disturbances may also come in a concentrated bundle, like shock wave from an aeroplane flying at

A. subsonic speed
B. sonic speed
C. super sonic speed
D. any one of them

19 The spectrum emitted from hydrogen filled discharge tube is:

A. Line spectrum
B. Discrete spectrum
C. And spectrum
D. Absorption spectrum
E. Both (A) and (B)

20 Density is defined as:

A. Mass per volume
B. Volume per mass
C. Mass X volume
D. Mass per length