

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	A process which can be retraced in exactly reverse order, without producing any change in the surroundings is called	A. reversible process B. irreversible process C. any one of them D. none of them
2	In the production of beats by 2 waves of same amplitude and nearly same frequency, the maximum intensity to each of the constituent waves is	A. Same B. 2 times C. 4 times D. 8 times
3	The transition from solid to liquid is actually from:	A. Order to disorder B. Disorder to order C. Order to order D. Disorder to disorder E. None of these
4	If a material object moves with the speed of light 'C' its mass becomes	A. Equal to its rest mass B. Four times of its rest mass C. Double of its rest mass D. Infinite
5	The critical temperature of aluminium is	A. 1.18 K B. 4.2 K C. 3.72 K D. 7.2 K
6	The range of particle depends upon the factor	A. charge, mass and energy of particle B. density of medium C. ionization potential of the atoms D. all the above
7	The artillery shells travel along parabolic paths under the influence of	A. magnetic field B. electric field C. electromagnetic field D. gravitational field
8	Blood is an	A. Compressible fluid B. incompressible fluid C. hard D. none of them
9	A railway engine (mass 10^4 kg) is moving with a speed of 73 km/h. The force which should be applied to bring it to rest over a distance of 20 m is	A. 3,600 N B. 7,200 N C. 10,000 N D. 100,000 N
10	A mass of 5kg moves with an acceleration of 10m s^{-2} force applied is	A. 10N B. 50N C. 2N D. 20N
11	The flow of an ideal fluid is	A. streamline flow B. incompressible flow C. non-viscous D. all of the above
12	The net force acting on a 100 kg man standing in an elevator accelerating downward with a $= 9.8\text{ m sec}^{-2}$ comes out to be	A. 980 N B. 580 N C. 1380 N D. Zero
13	A force of 50 dynes is acted on a body of mass 5 g which is at rest, for an interval of 3 seconds, then impulse is	A. $0.15 \times 10^{-3}\text{Ns}$ B. $0.98 \times 10^{-3}\text{Ns}$ C. $1.5 \times 10^{-3}\text{Ns}$ D. $2.5 \times 10^{-3}\text{Ns}$
14	Ultra-violet rays differ from X-rays in that they	A. Cannot be diffracted B. Cannot be polarized C. Have a lower frequency D. Are deviated when they pass through a magnetic field
15	According to the Bernoulli's equation, where the speed of the fluid is high, the pressure will	A. low B. zero

15	be	C. high D. all of them
16	Electric generators which convert mechanical energy into	A. solar energy B. thermal energy C. kinetic energy D. electrical energy
17	Significant figures in 0.2020 are:	A. Two B. Three C. Four D. Five
18	The total charge of any nucleus is given as	A. Ze^{2+} B. $Z^{2+}e$ C. Ze D. Ze
19	A typical rocket ejects the burnt gases at speeds over	A. 400 ms^{-1} B. 40000 m s^{-1} C. 40000 ms^{-1} D. 60000 ms^{-1}
20	A photon is considered to have	A. Momentum B. Energy C. Wavelength D. All of the above