

ECAT Pre General Science MCQ's Test For Physics Full Book

Sr	Questions	Answers Choice
1	when the deformation produced in the material become permanent, this type of behaviour is called	A. proportionality B. elasticity C. plasticity D. none of them
2	Fluids have three types of energies. The Bernoulli's equation combines those energies. which of the following is one of the three enrgies possessed by a fluid?	A. potential energy B. pressure energy C. strain energy D. (a) and (b) only
3	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
4	In the equation $E=mc^2$ value of c is:	A. 1,86,000 miles per hour B. 1,86,000 miles per sec C. 3×10^8 m/sec D. Both A and C E. Both B and C
5	The unit of spring constant is	A. J-sec B. Metre C. Nm^{-1} D. None of these
6	Three resistors of resistance R each are combined in various ways. Which of the following cannot be obtained?	A. $3R$ B. $2R/4$ C. $R/3$ D. $2R/3$
7	Electric generators which convert mechanical energy into	A. solar energy B. thermal energy C. kinetic energy D. electrical energy
8	If one newton force acts on a body and displaces the body through 1m work done on body is	A. 1 dyne B. 1 joule C. 1KJ D. 1 Watt
9	Which of the following waves are more energetic	A. radio waves B. infrared waves C. ultraviolet D. γ -rays
10	A non-inertial frame of reference is that frame of reference in which	A. $a = 0$ B. $a > 0$ or $a < 0$ C. $v = 0$ D. none of them

11	Work done is maximum when angle between force and displacement is:	<p>90°</p> <p>B. 90°</p> <p>C. 180°</p> <p>D. None of these</p>
12	A two Kg block is held 1 m above the floor for 50 seconds, the work done is:	<p>A. Zero</p> <p>B. 10.2 J</p> <p>C. 100 J</p> <p>D. 980 J</p>
13	A mass of a liquid of density is mixed with an equal mass of another liquid of density 3. The density of the liquid mixture is.	<p>A. 1</p> <p>B. 3/2</p> <p>C. 2</p> <p>D. 4</p>
14	In a transistor, the central region is called	<p>A. collector</p> <p>B. emitter</p> <p>C. base</p> <p>D. none of them</p>
15	Light year is a unit of:	<p>A. Time</p> <p>B. Distance</p> <p>C. Velocity</p> <p>D. Intensity of light</p>
16	The sum of positive and negative peak values are usually written as	<p>A. P-P value</p> <p>B. negative</p> <p>C. zero</p> <p>D. may be positive or negative</p>
17	A body of weight 1 N has a kinetic energy of 1 joule when its speed is:	<p>A. 1.46 m sec⁻¹</p> <p>B. 2.44 m sec⁻¹</p> <p>C. 3.42 m sec⁻¹</p> <p>D. 4.43 m sec⁻¹</p>
18	According to the special theory of relativity, time is	<p>A. absolute quantity</p> <p>B. not absolute quantity</p> <p>C. constant quantity</p> <p>D. none of these</p>
19	Tick the conservation force:	<p>A. Tension in a string</p> <p>B. Air resistance string</p> <p>C. Elastic spring force</p> <p>D. Frictional force</p>
20	The substances which break just after the elastic limit is reached, are known as	<p>A. brittle substances</p> <p>B. ductile substances</p> <p>C. plastic substances</p> <p>D. elastic substances</p>