

MDCAT Physics MCQ's Test

Sr	Questions	Answers Choice
1	The rate of change of momentum of a molecule is equal to:	A. Pressure B. Work C. Density D. Force
2	Ductility is the property of a substance in which a material undergoes the deformation as	A. Elastic deformation B. Plastic deformation C. Shear deformation D. None of these
3	Substance which break just after the elastic limit is crossed are called	A. Soft substances B. Hard substances C. Brittle substances D. Ductile substances
4	A ball takes 't' second to fall from a height h_1 and '2t' second to fall from a height h_2 then h_1/h_2 is:	A. 2 B. 4 C. 0.5 D. 0.25
5	A stress which is along one dimension is known as:	A. Tensile stress B. Linear stress C. Compressive stress D. Both (A) and (C) E. Both (A) and (B)
6	The diffraction of light occurs, due to interference, of	A. Obstructed portion B. Unobstructed portion C. Both obstructed and unobstructed light D. None of these
7	A lens of 2 cm focal length is to be used as a magnifying glass. Its magnification is	A. 13.5 B. 12.5 C. 0.5 D. 2.5
8	A body is dropped from a height of 20 m and rebounds to a height of 10 m. the loss of energy is:	A. 10% B. 45% C. 50% D. 75%
9	According to Bohr's theory, a line in the Balmer series arises when the electron jumps from any of the higher orbits to the orbit with quantum number:	A. 1 B. 2 C. 3 D. 4
10	The emf of a cell of negligible internal resistance is 2V. It is connected to the series combination of R_1, R_2, R_3, R_4 resistance. The potential difference across R_4 resistance will be in volt:	A. 0.6 B. 2/3 C. 3 D. 6
11	The unit which is bases on one or more base units is called:	A. SI unit B. Derived unit C. Unit vector D. Base unit
12	The unpolarized light is	A. An ordinary incandescent bulb B. Sun C. Moon D. All of these
13	The ratio of linear stress/linear strain is called as	A. Young's modulus B. Bulk modulus C. Shear modulus D. Modulus
14	Two charges of equal magnitudes and at a distance r exert a force F on each other. If the charges are halved and distance between them is doubled, then the new force acting on each charge is:	A. F/8 B. F/4 C. F/16 D. 4F
15	Plane microwaves are incident on a long slit having a width of 5 cm. The wavelength of the microwaves if the first minima is formed at 30° is	A. 25 cm B. 5 cm C. 2.5 cm D. 10 cm

		D. 5 mm
16	The idea of Michelson's interferometer is based on the	A. reflection of light B. interference of light C. refraction of light D. all of them
17	Ratio of dimension of K.E and power is:	A. 1:1 B. T:1 C. 1:T D. M:J
18	In a never system, the repeaters are placed at about	A. 50 km B. 75 km C. 100 km D. 125 km
19	A tritium and alpha particle enter the magnetic field with same kinetic energy, what will be the ratio of their radii?	A. 3:4 B. $\sqrt{3}:1$ C. $\sqrt{3}:4$ D. $\sqrt{3}:\sqrt{2}$
20	The law of thermodynamics which discusses the condition under which heat energy is converted into and equivalent amount of work is:	A. 1st B. 2nd C. 3rd D. None of these