

MDCAT Physics MCQ's Test

Sr	Questions	Answers Choice
1	When the velocity of a body is doubled:	A. Its K.E is doubled B. Its P.E is doubled C. Its momentum is doubled D. Its acceleration is doubled
2	X-ray diffraction has been very useful in determining structure of	A. Hemoglobin B. Double helix structure of DNA C. Blood speed D. a and b
3	An electron and a proton are projected at right angles to a uniform magnetic field with	A. the electron trajectory will be less curved than proton's trajectory B. the electron trajectory will be more curved than proton's trajectory C.) both trajectories will be equally curved D.) both particles continue to move along a straight line
4	The first superconductor was discovered in	A. 1905 B. 1911 C. 1916 D. 1920
5	Light appears to travel in straight line because	A. It is not absorbed by the atmosphere B. It is refracted by the atmosphere C. Its wavelength is very small D. Its velocity is very large
6	When an observer moves towards a stationary source with a speed equal to 1/5 times of speed of sound, the percentage increase in the frequency of sound is:	A. 20% B. 40% C. 5% D. 10%
7	A completely transparent material will be invisible in vacuum when the refractive index n is	A. Unity B. More than unity C. Less than unity D. Equal to 1.33
8	_____ is a cubic pattern having one extra atom or molecule at the centre of each of the six faces of the cube	A. Simple cube B. Face centered cube C. Body centered cube D. None of these
9	When the bob of a simple pendulum is at extreme position, K.E. is _____ and P.E. is _____.	A. Maximum, zero B. Minimum, zero C. zero , maximum D. None of these
10	Recent studies of ferromagnetism have shown that there exists in ferromagnetic substances small regions called	A. tiny regions B. domains C. vectors D. none of them
11	Monochromatic light means waves of:	A. Same frequency B. Same colour C. Same wavelength D. All of them
12	A body moves a distance of 10 m along a straight line under the action of a force of 5 N. If the work done is 25 joules, the angle which the force makes with the direction of motion of the body is?	A. 0 Degree B. 30 Degree C. 60 Degree D. 90 Degree
13	The relative permittivity of air is	A. 1 B. 3.7 C. 7.8 D. 1.0006
14	The modulus of elasticity of material does not depend upon	A. Shape B. Temperature C. Nature of material D. Impurities mixed

15	The metals become a magnetic material because of their	A. Hardness B. Alignment of atoms C. Structure D. All of them
16	The brilliance of diamond is	A. Entirely due to refractive index B. Entirely due to total internal reflection C. Partly due to total internal reflection D. None of the above
17	Brownian motion confirms the truth of :	A. Wave theory of light B. Boyle's law C. Kinetic theory of gases D. Adiabatic process
18	The efficiency of half wave rectifier is:	A. 25.6% B. 1.2% C. 40.6% D. 66.6%
19	A spectrometer is used to find	A. Wavelength of light B. Refractive index of the prism C. Angle of minimum deviation of prism D. All of these
20	Pure form of semiconductor is called	A. Extrinsic semiconductor B. Intrinsic semiconductor C. N type D. P type material