

MDCAT Physics MCQ's Test

Sr	Questions	Answers Choice
1	An angle of 180° in circular motion is equivalent to _____ in SHM.	A. Half the vibration B. One vibration C. 3/4th of a vibration D. None of these
2	Rest mass energy of electron is:	A. 1.02 MeV B. 0.51 MeV C. 931 MeV D. 200 MeV
3	The light from the sun reaches to earth with wavefronts	A. Spherical B. Cylindrical C. Plane D. None of these
4	The number of electrons in a nucleus X of atomic number Z and mass number A is:	A. A B. W C. Z D. Y
5	Mirage is a phenomenon due to	A. Reflection of light B. Refraction of light C. Total internal reflection of light D. Diffraction of light
6	The size of the domains in such that they can contain	A. 10^{2-4} atoms B. 10^{4-10} atoms C. 10^{8-10} atoms D. 10^{12-16} atoms
7	The central point in the Newton's rings is dark due to	A. Destructive interference B. Constructive interference C. Additional of path difference D. b and c
8	When small number of atoms from some other suitable element is added to the semi-conductor material, then this process is known as	A. impurification B. adding C. doping D. extrinsivity
9	If we know the refractive index of glass, speed v of light in the glass can be found by	A. $v = c n$ B. $v = c/n$ C. $v = n/c$ D. None of these
10	The power needed to lift a mass of 5000g to height of 1m in 2 second is	A. 2.45 watt B. 24.5 watt C. 245 watt D. 2.45 k watt
11	Bulk modulus for diamond is	A. 250 B. 540 C. 695 D. 714
12	In multimode graded index fibre core and cladding has boundary	A. Noticeable B. No noticeable C. No boundary D. None of these
13	A pure semiconductor has:	A. An infinite resistance at 0°C B. A finite resistance which does not depend upon temperature C. A finite resistance which decreases with temperature D. A finite resistance which increase with temperature

14	In the theory of dimensional analysis, heat may be properly represented by:	A. ML^2I^{-2} B. MT^{-2} C. $ML^{-1}T^{-1}$ D. None of these
15	Photo phone was invented by	A. Edison B. Graham Bell C. Bardeen D. None of these
16	The cores of electromagnets used for alternating currents where the specimen repeatedly undergoes magnetization and demagnetization should have	A. broad hysteresis curves B. narrow hysteresis curves C. any one of the them D. none of them
17	Insulators are those materials in which valence band is	A. Empty B. Partially filled C. Full D. None of these
18	Consider telecommunication through optical fibers.Which of the following statements is not true?	A. Optical fibers may have homogeneous core with a suitable cladding B. Optical fibers can be of graded refractive index C. Optical fibers are subject to electromagnetic interference from outside D. Optical fibers have extremely low transmission loss
19	When an electron in an atom goes from a lower to higher its:	A. K.E. increases, P.E. decreases B. K.E. increases C. P.E increases D. K.E. decrease, P.E. increases
20	Bending of light around sharp edges is known as	A. Interference B. Diffraction C. Reflection D. Dispersion