MDCAT Physics MCQ's Test

Sr	Questions	Answers Choice
1	When a strength changes the length of a body,it is called	A. Tensile stress B. Shear stress C. Compressional stress
2	The angle of projection, at which the range of projectile would become half of its maximum value.	A. 45Degree B. 30Degree C. 15Degree D. 60 Degree
3	The light source in the transmitter can be either	A. Light emitting diode B. Semiconductor laser C. Light emitting in an invisible infra red D. All of these
4	The frequency and work function of an incident photon are n and□□. If f0 is the threshold frequency, then necessary condition for the emission of photo electron is:	A. < □0 B. □ ≥ □0 C. f = □0/2 D. None of these
5	A monkey is accelerating down a string whose breaking strength is two third of his weight. The minimumacceleration of the monkey should be	A. 1/3g B. g C. 2/3 g D. 0 m/s2
6	An optical instrument used to see very far off objects is called	A. Telescope B. Camera lens C. Microscope D. Spectrometer
7	Which of the following types of optical fibre has a core which rages in diameter from 50 to 1000μm?	A. single mode step fibre B. multi-mode step index fibre C. multi-mode graded index fibre D. none of them
8	The ratio of applied stress to volumetric strain is called	A. shear modulus B. Young's modulus C. Bulk modulus D. None of these
9	The magnification of a simple microscope of focal length 5cm is	A. 3 B. 5 C. 6 D. 20
10	The dimensions of Planck's constant "h" are same as that of:	A. Momentum B. Angular momentum C. Work D. Torque
11	Bulk modulus for tungsten is	A. 50 B. 100 C. 150 D. 200
12	Carnot engine is _____ heat engine.	A. A reversible B. An irreversible C. An ideal D. Both A and C
13	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
14	A geometric shape of a solid obtained by regular, respetive, three-dimensional arrangements of its molecules,atoms or ions is called a:	A. Crystal B. Crystal Lattice C. Crystal plane D. None of these
15	Identify practical use of superconductor	A. MRI B. Super computer C. Magnetic levitation train D. All above

16	Davisson and Germer received the Nobel prize for their work on:	A. Wave nature of particle B. Corpuscular nature of wave C. Dual nature of particle D. All of them
17	A beam of light enters air from water.Which of the following characteristics of light will not change in water	A. Frequency B. Wavelength C. Velocity D. Amplitude
18	Ferromagnetic materials are those in which atoms cooperate with each other	A. Weakly B. Strongly C. Moderately D. None of these
19	When two objects come to common temperature, the body is said to be in:	A. Static equilibrium B. Dynamic equilibrium C. Thermal equilibrium D. None of these
20	When a body is subjected to some external force, deformation is produced in:	A. Shape B. Length C. Volume D. Any of these E. None of these