MDCAT Physics Chapter 13 Deformation of Solids MCQ's Test

Sr	Questions	Answers Choice
1	A semiconductor is known to have an electron concentration of 8 x 10^{13} per cm^3 and hole concentration of 5 x 10^{12} per cm^3 the semiconductor is	A. n-type B. P-type C. Intrinsic D. None of these
2	The young s modulus of a wire of length L and radius r is Y if the length is reduced to L/2 and radius to r/2 its young s modulus wire be	A. Y / 2 B. Y C. 2 Y D. 4 Y
3	Nm^{-2} or Pa are the units of	A. Stress B. Strain C. Modulus of Elasticity D. a and b
4	The metals become a magnetic material because of their	A. Hardness B. Alignment of atoms C. Structure D. All of them
5	The examples of diamagnetic substances	A. Water B. Copper C. Antimony D. All of them
6	A wire is stretched to double of its length.The strain is	A. 2 B. 1 C. Zero D. 0.5
7	What is the bulk modulus of a material?	A. strain/volumetric strain B. volumetric stress/strain C. stress/volumetric strain D. volumetric stress/volumetric strain
8	The SI unit of stress is same as that of.	A. Momentum B. Pressure C. Force D. Length
9	The modulus of elasticity of a liquid is:	A. Zero B. 1 C. Infinity D. A value not one of those mentioned above
10	The force applied on unit area to produce any change in the shape, volume or length of a body is known as	A. strain B. elasticity C. stretching D. stress
11	Bulk modulus for steel is	A. 60 B. 120 C. 160 D. 170
12	When an atom is isolated, it energy levels are	A. Distinct B. Very close C. Very very close D. None of these
13	Conductors are those materials in which energy gap is	A. very large (several eV) B. very narrow (= 1eV) C. either of them D. none of them
14	The main reason for the high speed of bullet train is	A. Magnetic effect B. Reduced friction C. Design of train D. None of these
15	When a crystal is subjected to stress, it tends to break or fracture along definite direction which is characteristic of a simple. This is called	A. Cleavage B. Allotropy C. Isotropy

		D. None of these
16	Polymers have naturally combinations like with	A. Oxygen B. Sulphuric C. Hydrocarbons D. Oxygen and carbons
17	polymeric solids have	A. low specific gravity B. high specific gravity C. either of them D. none of them
18	The value of young modulus in $Nm^{-2}$for water is	A. 70 x 10 B. 2.2 x 10⁵ C. Zero D. None of these
19	The results of mechanical tests are usually expressed in terms of	A. stress B. strain C. stress and strain D. neither stress nor strain
20	When a strength changes the length of a body,it is called	A. Tensile stress B. Shear stress C. Compressional stress