MDCAT Physics Chapter 13 Deformation of Solids MCQ's Test

Sr	Questions	Answers Choice
1	Crystalline solids have the properties such as	A. Regular arrangement B. Covalent bonding C. Some what defective D. All of them
2	The measure of deformation of a solid when stress is applied to it is called	A. Strain B. Stress C. Force D. None of these
3	In a semi-conductor material, current flows due to	A. positive charge B. negative charge C. both of them D. none of them
4	Energy per unit volume of a stretched wire is	A. (1/2) x load x extension B. Load x stress C. Stress x strain D. (1/2) x stress x strain
5	The dimension of elastic modulus	A. ML⁻¹T² B. MLT² C. ML⁻¹T² D. MLT³
6	The critical temperature of tin is	A. 1.18 K B. 4.2 K C. 3.72 K D. 7.2 K
7	When a large number of atoms are brought close to one another to form a solid, each energy level of an isolated atom splits into sub-levels, called	A. energy bands B. energy shells C. states D. all of them
8	Steel is preferred for making permanent magnets because it has	A. Large retentivity and large coercively B. Small retentively and small coercively C. Large retentively and small soercively D. Small retentively and large coactivity
9	Unit cell has a basic structure of	A. One dimensional B. Two dimensional C. Three dimensional D. None of these
10	Stree is _____ property of solids	A. Electrical B. Polymeric C. Conductive D. Mechanical
11	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
12	Bulk modulus for steel is	A. 60 B. 120 C. 160 D. 170
13	The atom or molecules in crystalline solids are held together by:	A. Cohesive force B. Adhesive force C. Gravitational force D. Magnetic forces
14	The ratio of kinetic energy to potential energy for solids is	
15	The S.I. unit of stress is also	A. Force B. Pascal C. Momentum

		D. None of these
16	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 will be	A. Y/2 B. Y C. 2Y D. 4Y
17	When a stress change its shape it is called	A. Tensile stress B. Shear stress C. Volume stress D. None of these
18	Crystalline solids are also	A. Metals B. Ionic compound C. Ceramics D. All of them
19	Stress maybe:	A. Tensile B. Compressive C. Compressible D. All of these E. Both (A) and (B)
20	In semiconductors, the valence band at room temperature is	A. Completely filled B. Partially filled C. Empty D. None of these