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	A hole in a semi-conductor material is treated as	A. positive charge B. negative charge C. neutral D. none of them
3	The word amorphous means:	A. Without any structure B. With define structure C. Regular arrangement of molecules D. Both B and C E. None of these
4	A bar of length L, cross-section A and Young's modulus Y, is pulled by a force F from both ends so as to produce an elongation x. Then:	A. x∝1/L B. x∝A C. x∝1/A D. x∝Y
5	On heating, it becomes a very viscous liquid at almost	A. 500 C^o B. 800 C^o C. 900 C^o D. 1000 C^o
6	The Hook's law defines	A. Modulus of elasticity B. Stress C. Strain D. Elastic limit
7	A wire can support a load W without breaking. It is cut into two equal parts. The maximum load that each part can support is:	A. W/4 B. W/2 C. W D. 2 W
8	The electrons in the outermost shell of an atom are called	A. Valence electrons B. Tightly bound electrons C. Free electrons D. None of these
9	What is the SI unit of Tensile strain?	A. Nm⁻² B. Jm⁻² C. Nm⁻¹ D. Being a number, it has no unit
10	The ability of a body to return to its original shape when applied force is removed is called	A. Stress B. Strain C. Elasticity D. All of them
11	In the hysteresis loop, when the current is reduced to zero, the material	A. does not retain magnetism B. retains not retain magnetism C. retains strong magnetism D. none of them

12	When a stress changes its volume it is called	A. Tensile stress B. Shear stress C. Volume stress D. None of these
13	The measure of deformation in a certain solid due to the action of stress is called	A. Hooke's law B. Mechanical advantage C. Stress D. Strain
14	Young's modulus for brass is	A. 40 B. 60 C. 90 D. 91
15	Which of the following is more elastic material?	A. iron B. Aluminum C. Wood D. Rubber
16	Unit cell has a basic structure of	A. One dimensional B. Two dimensional C. Three dimensional D. None of these
17	In crystalline solids, atoms are held about their equilibrium positions depending upon the strength of:	A. Adhesive forces B. Nuclear forces C. Inter atomic cohesive force D. Electromagnetic force E. None of these
18	Bulk modulus is involved when the deformation is:	A. One dimentional B. Two dimentional C. Three dimentional D. Any of these E. None of these
19	When a stress changes its length, it is called	A. Stress B. Tensile stress C. Shear stress D. None of these
20	Shear modulus for tungsten is	A. 50 B. 100 C. 150 D. 200