MDCAT Physics Chapter 13 Deformation of Solids MCQ's Test

Sr	Questions	Answers Choice
1	The polymeric solids have specific gravity compared with even the lightest of metals	A. Low B. Very Low C. Slightly low D. None of these
2	Polymers have specific gravity which is:	A. Low as compared to even the lightest metal B. High as compared to the heaviest metal C. Intermediate D. Any of these E. None of tese
3	When a silicon crystal is doped with trivalent impurity which are	A. Indium B. Arsenic C. Phosphorous D. None of these
4	The molecules or ions in a crystalline solid are	A. static B. not static C. randomly moving D. all of them
5	The valence energy band can never be	A. Filled B. Partially filled C. Empty D. None of these
6	In semiconductors at 0 K the valence band is	A. Completely filled B. Partially filled C. No D. Yes
7	According to the Hooke's law the force required to change the length of a wire by '1' is proportional to:	A. 1⁻² B. 1⁻¹ C. 1
8	A wire is stretched to double of its length.The strain is	A. 2 B. 1 C. Zero D. 0.5
9	At 0 K a piece of Ge and Si is a perfect	A. Conductor B. Insulator C. Semiconductor D. None of these
10	The area of the loop is the dissipated energy which do work against friction of domains is called	A. Current loss B. Voltage loss C. Hysteresis loss D. None of these
11	Change in length divided by original length is called:	A. tress B. Young's modulus C. Strain D. Both (B) or (C) E. None of these
12	High temperature superconductors have temperature	A. Above 77 K B. Below 77 K C. At 77 K D. None of these
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	Ratio between total intensity of magnetic field at equator to poles is	A. 1 : 1 B. 2 : 1 C. 1 : 2 D. 1 : 4

15	A wire of 100 mm length and 1 mm^2surface area stretches 10 mm under a load of 60 N. A second wire of same material, with half the diameter of the first wire is stretched by the same load. What is the extension in the second wire?	A. 20 mm B. 30 mm C. 40 mm D. 50 mm
16	Glass and high carbon steel are	A. Brittle substances B. Insulator C. Ductile substances D. None of these
17	polymeric solids have	A. low specific gravity B. high specific gravity C. either of them D. none of them
18	When a stress changes the shape, it is called the	A. compressional stress B. tensile stress C. shear stress D. any one of them
19	If both the length and radius of rod are doubled, then the modulus of elasticity will:	A. Increase B. Decrease C. Remains the same D. Doubled
20	Inspite vibrations the force which hold the atoms in their ordered form is	A. Vander vall force B. Cohesive force C. Adhesive force D. None of these