MDCAT Physics Chapter 13 Deformation of Solids MCQ's Test

Sr	Questions	Answers Choice
1	The critical temperature for mercury is	A. 1.18 K B. 4.2 K C. 3.72 K D. 7.2 K
2	Shear modulus for diamond is	A. 156 B. 353 C. 450 D. 477
3	Each atom in a metal crystal vibrates about a fixed point with a amplitude that:	A. Decreases with rise in temperature B. Is not affected by rise in temperature C. Increases with rise in temperature D. Both B and C E. None of these
4	Steel is preferred for making springs over copper.Whey?	A. Steel is cheaper B. Young;s modulus of steel is more than that of copper C. Young's modulus of copper is more than that of steel D. Steel is less likely to be oxidized.
5	Bulk modulus for aluminium is	A. 40 B. 70 C. 75 D. 95
6	The domains are the small regions of the order of	A. Millimeter B. Micrometer C. Micron D. None of these
7	The limit below which the Hooke s law holds well is called	A. Yield point B. Breaking stress C. Tensile strength D. Elastic limit
8	At higher temperature their vibrations become so great that structure suddenly breaks up and changes into	A. Order to disorder B. Solid into liquid C. Melted D. All of them
9	In semiconductor Si or Ge a missing electron in covalent bond from an atom is a	A. Charged atom B. Hole C. Ion D. All of them
10	When relatively simple molecules are chemically combined into massive molecules, the reaction is called:	A. Fission reaction B. Fusion reaction C. Polymerization reaction D. Any of these E. None of these
11	Which of the following pairs is not correct	A. Strain - dimensional B. Stress - N/m² C. Modulus of elasticity - N/m² D. Shear stress - N/m²
12	The band above the valence band is called	A. high energy band B. conduction band C. empty band D. none of them
13	Curie temperature is a point where:	A. Diamagnetism changes to paramagnetism B. paramagnetism changes to Diamagnetism C. Ferromagnetism changes to paramagnetism D. paramagnetism changes to Ferromagnetism

14	Those solid which breaks soon after crossing the elastic limit are called	A. Amorphous B. Glassy solid C. Crystalline solid D. Brittle
15	Nm^{-2} or Pa are the units of	A. Stress B. Strain C. Modulus of Elasticity D. a and b
16	Shear modulus for lead is	A. 1.7 B. 4.9 C. 5.6 D. 6.2
17	Metals are good conductors of electricity and their conductivities are of the order of	A. 10³(Ω m)⁻¹ B. 10⁴(Ω m)⁻¹ C. 10⁶(Ω m)⁻¹ D. 10⁷(Ω m)⁻¹
18	In proportional limit (σ) of material, the stress increases with strain	A. Linearly B. Constant C. Abruptly increases D. None of these
19	The symbol K and G have been used to denote respectively:	A. Young's modulus and bulk modulus B. Young's modulus and shear modulus C. Bulk modulus and shear modulus D. Any of these E. None of these
20	Glass and high carbon steel are	A. Brittle substances B. Insulator C. Ductile substances D. None of these