

MDCAT Physics Chapter 13 Deformation of Solids MCQ's Test

Sr	Questions	Answers Choice
1	Shear modulus for water is	A. - 4.7 B. - 3.3 C. - 1.2 D. 0
2	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
3	In a semiconductor, the mobility of holes is	A. Greater than electrons B. Less than electrons C. Equal to electrons D. None
4	Bulk modulus for brass is	A. 20 B. 41 C. 61 D. 81
5	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
6	Recent studies of ferromagnetism have shown that there exists in ferromagnetic substances small regions called	A. tiny regions B. domains C. vectors D. none of them
7	Semiconductors, like Ge or Si at room temperature become a	A. Semiconductor B. Conductor C. Insulator D. None of these
8	When a small number of atoms from some other suitable element is added to the semiconductor material, then this process is known as	A. impurification B. adding C. doping D. extrinsivity
9	On heating, glass gradually softens into a paste-like state before it becomes a very viscous liquid at almost	A. 600 °C B. 7600 °C C. 800 °C D. 900 °C
10	When a silicon crystal is doped with a pentavalent element, such an extrinsic semiconductor is called	A. p-type semiconductor B. n-type semiconductor C. either of them D. none of them
11	The dimension of elastic modulus	A. $ML^{-1}T^{-2}$ B. MLT^{-2} C. $ML^{-1}T^{-2}$ D. MLT^{-3}
12	Young's modulus for diamond is	A. 700 B. 913 C. 1100 D. 1120
13	Which of the following is not dimensionless	A. Poisson's ratio B. Shear strain C. Longitudinal strain D. Volume stress
14	A regular, repetitive, three-dimensional pattern of points, which represent the position of	A. Unit cell B. Space lattice

	molecules, atoms or ions in the crystal, is called:	C. Crystal D. None of these
15	There is a regular arrangement of molecules in	A. amorphous solids B. polymeric solids C. crystalline solids D. none of these
16	Substances which undergo plastic deformation until they break, are known as	A. brittle substances B. ductile substances C. plastic substances D. neither of them
17	A stress which decreases the stress along one dimension is known as:	A. Compressive stress B. Tensile stress C. Linear stress D. Both (B) and (C)
18	The electrical conductivities of insulators are ranging from	A. 10^{-5} to 10^{-10} B. 10^{-10} to 10^{-15} C. 10^{-5} to 10^{-15} D. 10^{-10} to 10^{-20}
19	A unit set is the smallest basic structure which is:	A. One dimensional B. Two dimensional C. Three dimensional D. Four dimensional E. None of these
20	Which one is ferromagnetic	A. Ferries B. Cobalt C. Nickel D. All