

MDCAT Physics Chapter 13 Deformation of Solids MCQ's Test

Sr	Questions	Answers Choice
1	Semiconductor materials have the conductivities generally lies between	A. 10^{-5} to 10^{-6} (Ω) B. 10^{-6} to 10^{-4} (Ω) C. 10^{-7} to 10^{-3} (Ω) D. None of these
2	Stress is defined in terms of:	A. Applied force B. Deformation C. Formation D. Any of these E. None of these
3	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
4	Stress is _____ property of solids	A. Electrical B. Polymeric C. Conductive D. Mechanical
5	Super conductor offers no resistance to	A. Thermal agitation B. Electric current C. Induced current D. None of these
6	With the rise of temperature the amplitude of atoms	A. Slow down B. Fixed C. Increases D. None of these
7	The deformation measured in terms of some twisting angle due to action of stress is known as	A. Stress B. Linear stress C. Compressive stress D. Shear stress
8	The critical temperature of tin is	A. 1.18 K B. 4.2 K C. 3.72 K D. 7.2 K
9	Any superconductor with critical temperature above 77 K, is referred as	A. low temperature superconductor B. high temperature superconductor C. very low temperature superconductor D. none of them
10	What is the Young modulus of a meta?	A. Extension/force B. Force/extension C. Strain/stress D. Stress/strain
11	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
12	The conduction of electrons takes place and conduct electric current through solids is a	A. Energy band B. Conduction band C. Valence band D. Completely filled band
13	When a silicon crystal is doped with a pentavalent element, then the atom of the pentavalent element is known as	A. acceptor B. donor C. either of them D. none of them
14	What is the unit of the Young's modulus?	A. $N m^{-2}$ B. $N m^{-1}$ C. N m D. ...

		D. $N m^{2}$
15	The amplitude of oscillation of each atom in a metallic crystal rises with the	A. rise in temperature B. decrease in temperature C. even temperature remains constant D. all of them
16	Which one of the following has only bulk modulus?	A. Diamond B. Glass C. Tungsten D. Water
17	A cable breaks if stretched by more than 2 mm. It is cut into two equal parts. How much either part can be stretched without breaking?	A. 0.25 m B. 0.5 m C. 1 mm D. 2 mm
18	The smallest portion of a crystal lattice that if repeated in three-dimensions will generate the entire lattice is called:	A. Unit cell B. Lattice plane C. Crystal D. None of these
19	Upon applying some unbalanced external stress the deformation may be observed in	A. Length B. Surface area C. Volume D. All of these
20	Bulk modulus for steel is	A. 60 B. 120 C. 160 D. 170