

MDCAT Physics Chapter 13 Deformation of Solids MCQ's Test

Sr	Questions	Answers Choice
1	Under the elastic region, the deformation produced in the material is	A. permanent B. temporary C. either of them D. none of them
2	Which of the following substances possesses the highest elasticity?	A. Al B. Copper C. Steel D. Rubber
3	Amorphous solids are more like	A. crystalline solids B. polymeric solids C. glassy solids D. any one of them
4	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
5	Young's modulus for brass is	A. 40 B. 60 C. 90 D. 91
6	The modulus of rigidity of a liquid is:	A. Zero B. 1 C. Infinite D. None of these
7	In spite of vibrations the force which holds the atoms in their ordered form is	A. Vander wall force B. Cohesive force C. Adhesive force D. None of these
8	The critical temperature of tin is	A. 1.18 K B. 4.2 K C. 3.72 K D. 7.2 K
9	The high-tensile steel used to support the roadway of a suspension bridge breaks under a stress of $2 \times 10^9 \text{ Pa}$. Find the minimum cross-sectional area for a cable if it is to support a load of mass $2 \times 10^5 \text{ kg}$. ($g = 10 \text{ N kg}^{-1}$)	A. 10^{-2} m^2 B. 10^{-1} m^2 C. 10^{-4} m^2 D. 10^{-3} m^2
10	The greatest stress that a material can endure without losing the proportionality between stress and strain is called	A. Plasticity B. Breaking point C. Proportional limit D. Strain
11	Stress may be:	A. Tensile B. Compressive C. Compressible D. All of these E. Both (A) and (B)
12	The SI unit of stress is	A. Nm^2 B. Nm C. dynes m^{-1} D. N
13	Each atom in a metal crystal vibrates about a fixed point with an 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
14	The electrons in the outermost shell are called	A. Super electrons B. Valance electrons C. Full valance D. Upper deep up

15	Doping is the process in which the small amount of impurity is added into pure semiconductor lattice in the ratio	A. 1 to 10^3 B. 1 to 10^4 C. 1 to 10^5 D. 1 to 10^6
16	To make a permanent magnet, a material should have	A. high retentivity and small coercive force B. low retentivity and high coercive force C. low retentivity and small coercive force D. high retentivity and high coercive force
17	The stress which increase the length in one dimension only is called	A. length stress B. only have compressive stress C. Have both tensile and compression stress D. None of them
18	Is there any physical distinction between the valence and conduction band	A. Yes B. No C. Very small D. None of these
19	Stree is _____ property of solids	A. Electrical B. Polymeric C. Conductive D. Mechanical
20	Which one of the following is polymer	A. Polythene B. Polystyrene C. Nylon D. All